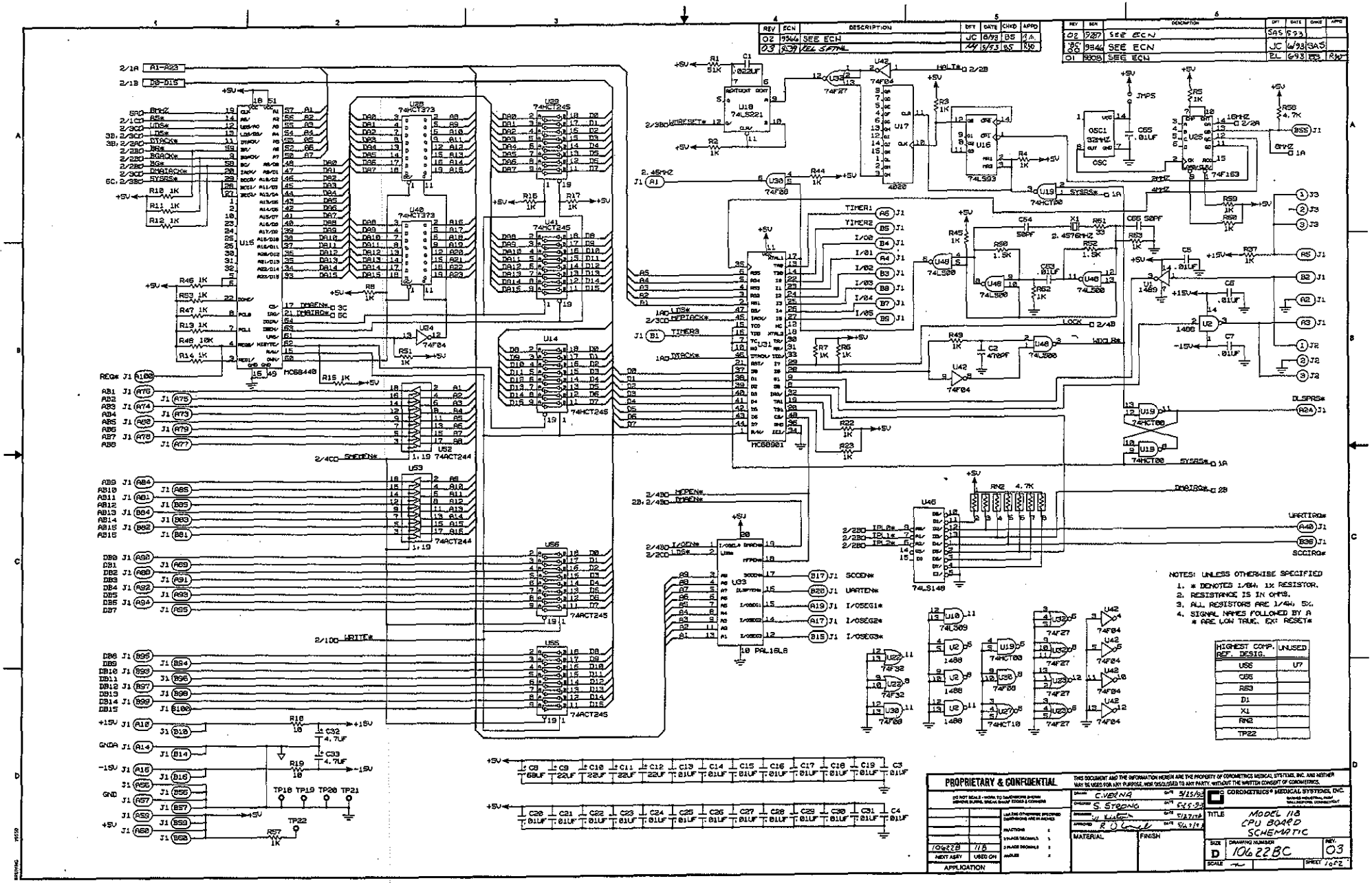
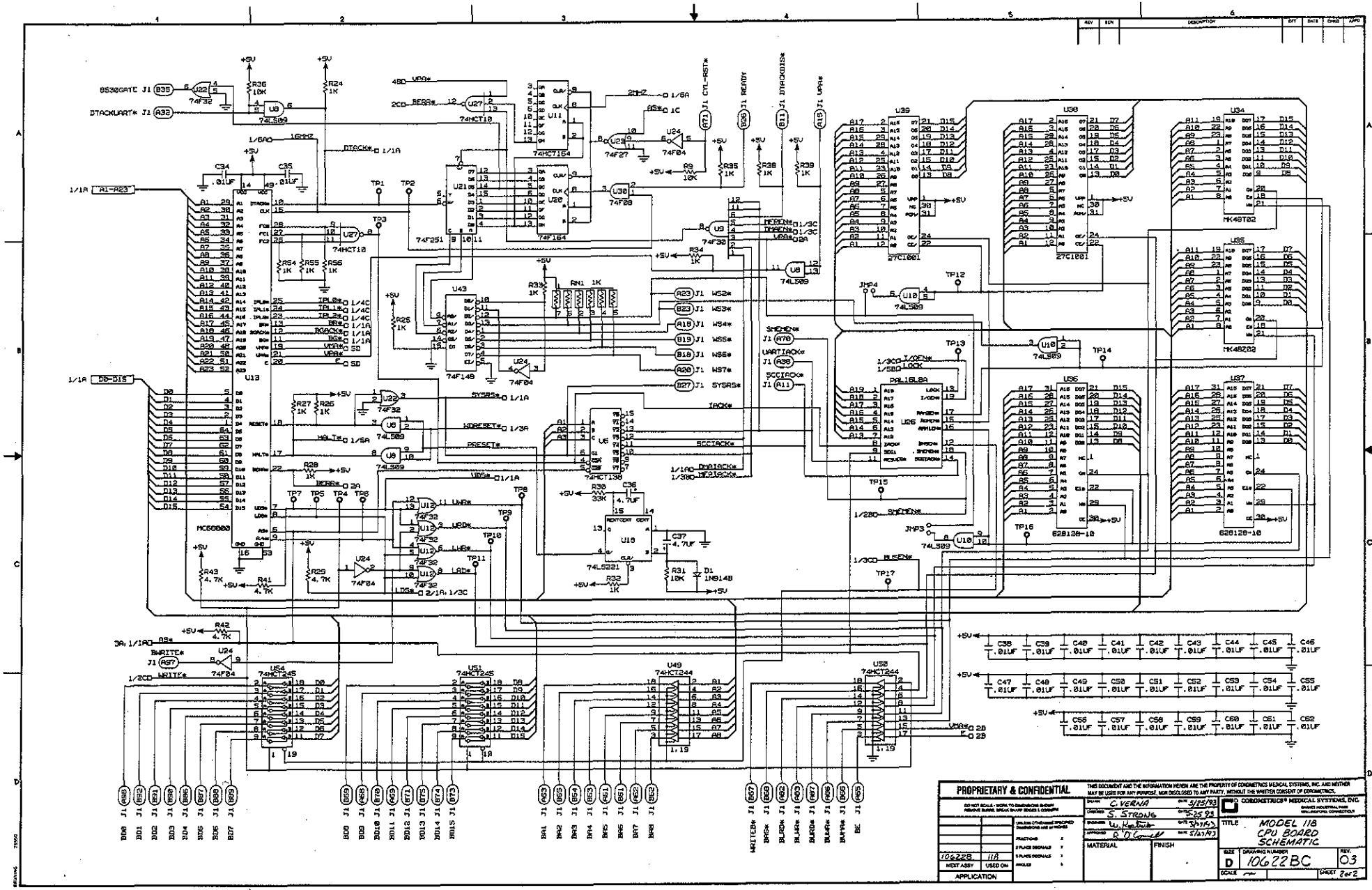
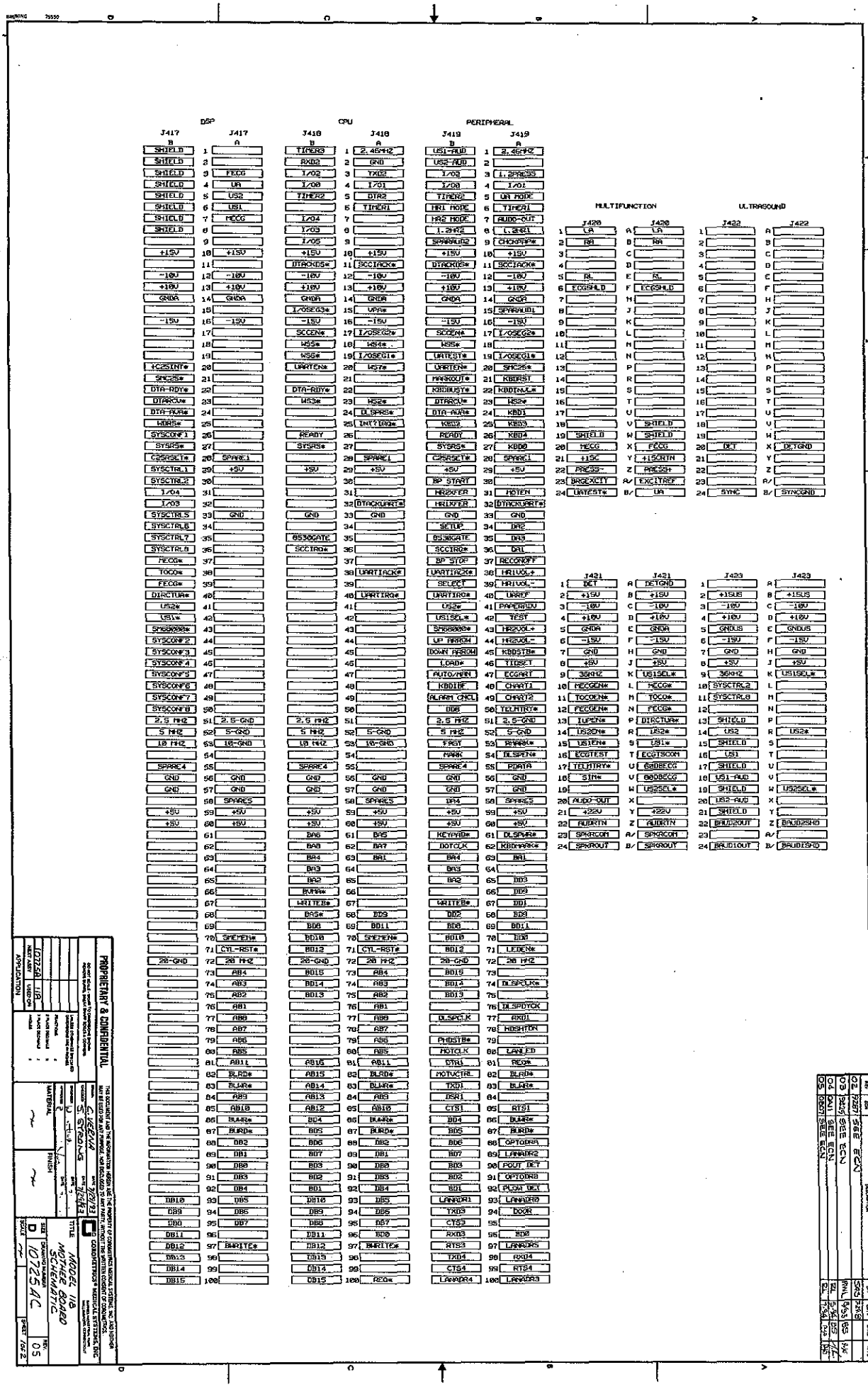

REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD
02 9344 SEE ECN JC 6/93 BS
03 9439 SEE NOTE 14 5/93
REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD
02 9287 SEE ECN SAS 5/93
01 9346 SEE ECN JC 6/93 SAS
01 9308 SEE ECN EL 6/93
NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*
HIGHEST COMP. REF. DESIG. | UNUSED
U55 | U7
C95
R83
D1
X1
RN2
TP22
PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.
DRAWN C.VERNA 5/15/93
CHECKED S. STRONG 5/25/93
ENGINEER W. Hutton 5/27/93
APPROVED R D Lowe 6/4/93
MATERIAL
FINISH
COROMETRICS® MEDICAL SYSTEMS, INC.
TITLE MODEL 118 CPU BOARD SCHEMATIC
SIZE D
DRAWING NUMBER 106228C
REV. 03
SCALE
SHEET 1 OF 2
106228 118
NEXT ASSY | USED ON
APPLICATION


PROPRIETARY & CONFIDENTIAL
CORDOMETRICS® MEDICAL SYSTEMS, INC.
TITLE
MODEL 118
CPU BOARD
SCHEMATIC
SIZE
D
DRAWING NUMBER
10622BC
REV.
03
SHEET 2 of 2
MATERIAL
FINISH
APPLICATION



PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREON ARE THE PROPERTY OF CORNERSTONE MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CORNERSTONE MEDICAL SYSTEMS, INC.

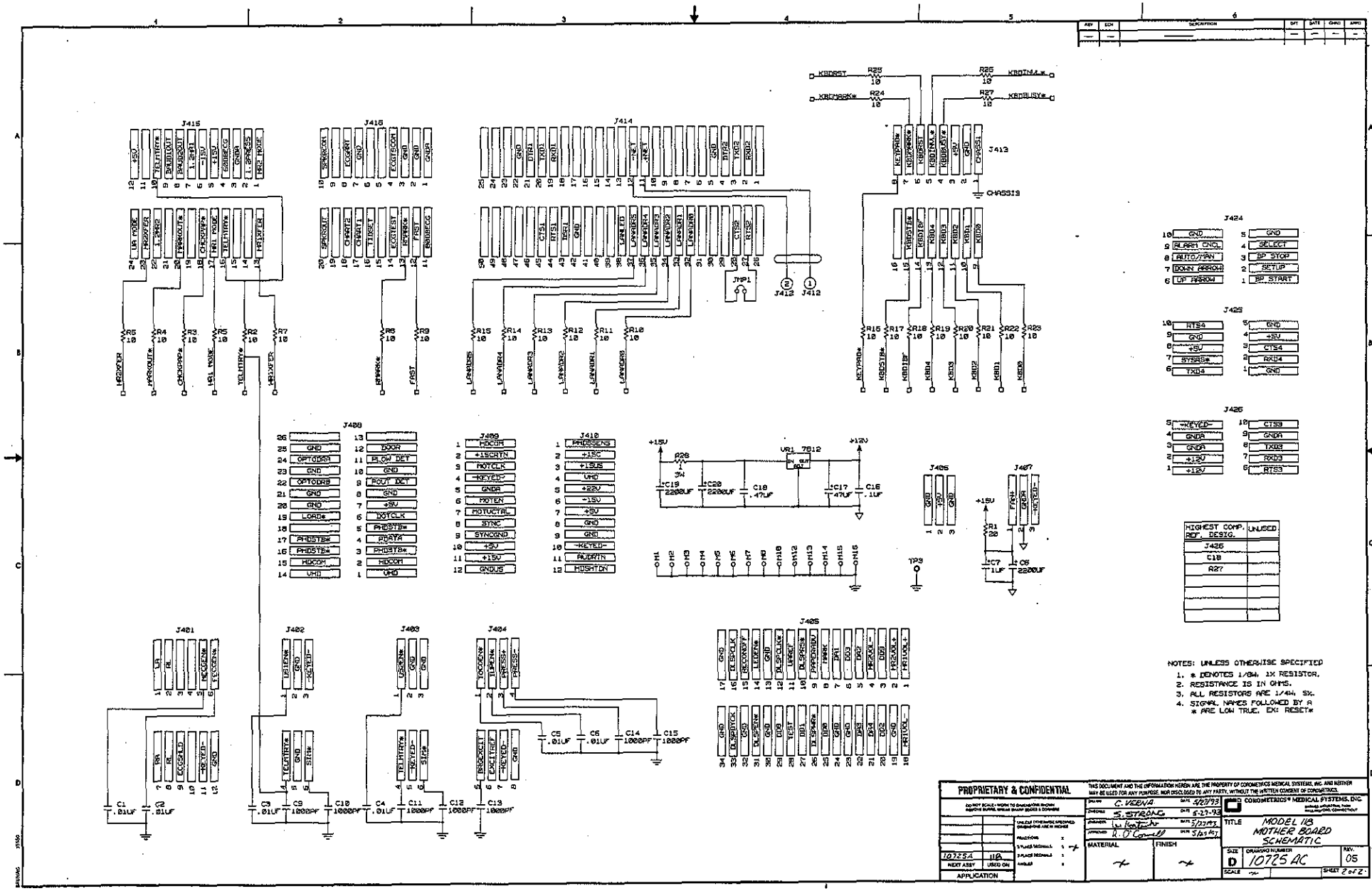
CORNERSTONE MEDICAL SYSTEMS, INC.
MILFORD, CONNECTICUT

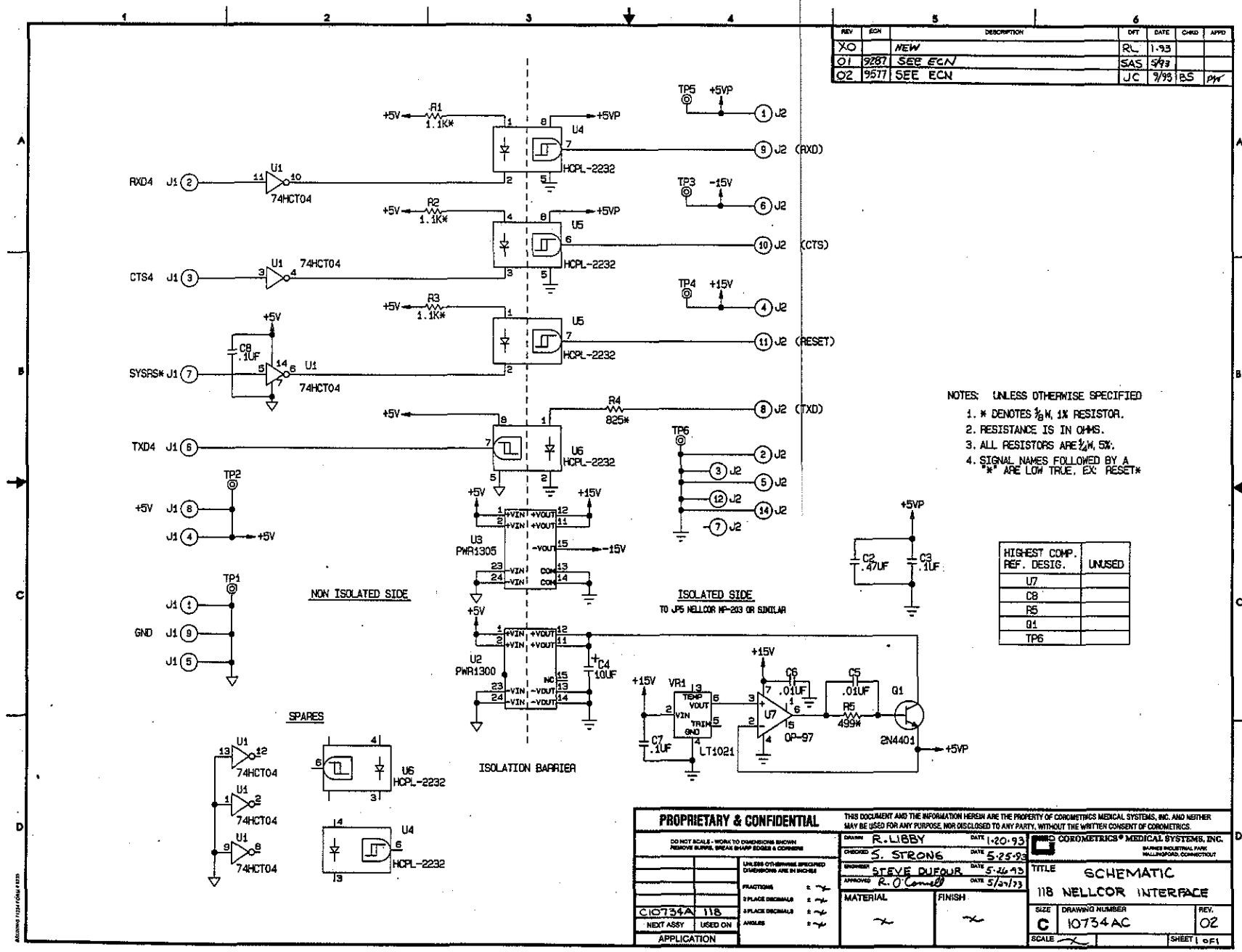
NEXT ASSY	
APPLICATION	USED ON
	107254A 118

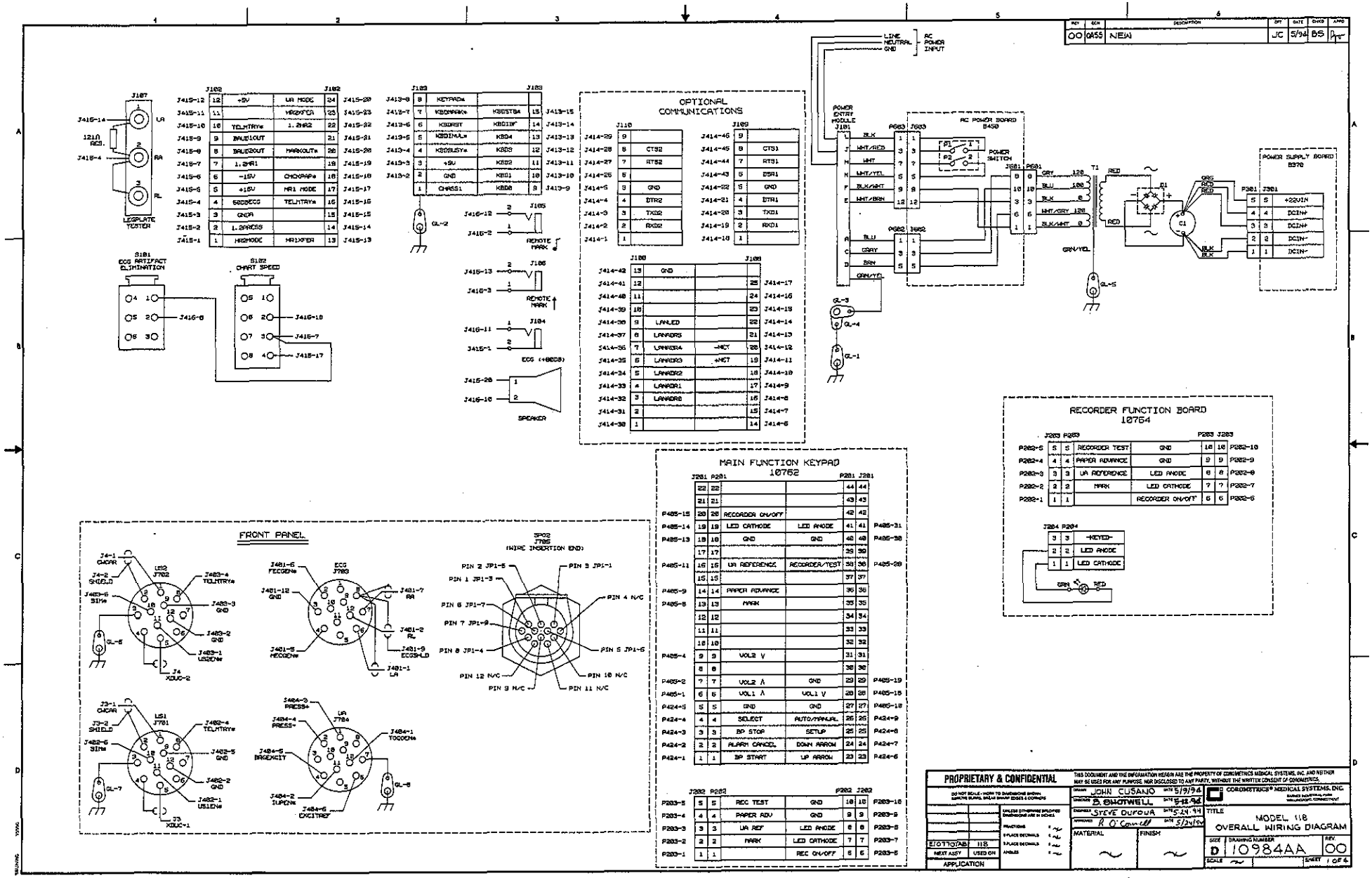
DRAWN: S. KEENAN 7/27/93
CHECKED: M. STRONG 7/27/93
ENGINEER: [illegible]
MATERIAL: ~
FINISH: ~

SIZE: D
SCALE: ~
TITLE: MODEL 118 MOTHER BOARD SCHEMATIC
DRAWING NUMBER: 107254C
REV: 05
SHEET: 1 OF 2

REV	DESCRIPTION	BY	CHK	APP
02	PER ECN	SAS		
03	PER ECN	SAS		
04	PER ECN	SAS		
05	PER ECN	SAS		


J415
J416
J414
J413
J424
J425
J426
J408
J409
J410
J405
J407
J401
J402
J403
J404
J406
CHASSIS
JMP1
VR1 7812
+15V
+12V
-15V
+5V
GND
TP3
HIGHEST COMP. REF. DESIG.
UNUSED
J426
C18
R27
NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4W, 5%.
4. SIGNAL NAMES FOLLOWED BY A * ARE LOW TRUE. EX: RESET*
PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF CORNETMICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CORNETMICS.
DRAWN C. VIEVIA 5/2/93
CHECKED S. STRONG 5-12-93
ENGINEER 5/13/93
APPROVED R. O'Connell 5/14/93
CORNETMICS® MEDICAL SYSTEMS, INC.
TITLE MODEL 118 MOTHER BOARD SCHEMATIC
MATERIAL
FINISH
SIZE D
DRAWING NUMBER 10725 AC
REV. 05
SCALE
SHEET 2 of 2
10725A
118
NEXT ASSY
USED ON
APPLICATION


1
2
3
4
5
6
A
B
C
D
REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD
X0 | | NEW | RL | 1.93 | |
01 | 9287 | SEE ECN | SAS | 5/93 | |
02 | 9577 | SEE ECN | JC | 9/93 | BS
R1 1.1K* +5V +5VP
R2 1.1K* +5V +5VP
R3 1.1K* +5V
R4 825* +5V
U4 HCPL-2232
U5 HCPL-2232
U5 HCPL-2232
U6 HCPL-2232
U1 74HCT04
U1 74HCT04
U1 74HCT04
U1 74HCT04
C8 .1UF
RXD4 J1 2
CTS4 J1 3
SYSRS* J1 7
TXD4 J1 6
TP5 +5VP
TP3 -15V
TP4 +15V
TP6
J2 (RXD)
J2 (CTS)
J2 (RESET)
J2 (TXD)
TP2
TP1
GND J1 9
U3 PWR1305
U2 PWR1300
C4 10UF
NON ISOLATED SIDE
ISOLATED SIDE
TO J5 NELCOR MP-203 OR SIMILAR
ISOLATION BARRIER
SPARES
C2 .47UF
C3 .1UF
VR1 LT1021
C7 .1UF
U7 OP-97
C6 .01UF
C5 .01UF
R5 499*
Q1 2N4401
+5VP
NOTES: UNLESS OTHERWISE SPECIFIED
1. * DENOTES 1/8 W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4 W, 5%.
4. SIGNAL NAMES FOLLOWED BY A "*" ARE LOW TRUE, EX: RESET*
HIGHEST COMP. REF. DESIG. | UNUSED
U7
C8
R5
Q1
TP6
PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.
DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
C10734A | 118
NEXT ASSY | USED ON
APPLICATION
DRAWN R. LIBBY DATE 1-20-93
CHECKED S. STRONG DATE 5-25-93
ENGINEER STEVE DUFOUR DATE 5-26-93
APPROVED R. O'Connell DATE 5/27/93
MATERIAL
FINISH
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT
TITLE SCHEMATIC
118 NELLCOR INTERFACE
SIZE C | DRAWING NUMBER 10734AC | REV. 02
SCALE | SHEET 1 OF 1


REV | ECN | DESCRIPTION | BY | DATE | CHKD | APPD
00 | QA55 | NEW | JC | 5/94 | BS
LINE
NEUTRAL
GND
AC POWER INPUT
POWER ENTRY MODULE J101
AC POWER BOARD 8450
POWER SWITCH
POWER SUPPLY BOARD 8370
J107
LEGPLATE TESTER
121Ω RES.
OPTIONAL COMMUNICATIONS
J102
J103
J105
J106
J104
REMOTE MARK
ECG (+8008)
SPEAKER
S101 ECG ARTIFACT ELIMINATION
S102 CHART SPEED
J108
J109
J110
RECORDER FUNCTION BOARD 10754
MAIN FUNCTION KEYPAD 10762
FRONT PANEL
LS2 J702
ECG J703
SPO2 7392 (WIRE INSERTION END)
LS1 J701
LA J704
PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.
DRAWN JOHN CUSANO 5/9/94
CHECKED D. SHOTWELL 5-12-94
ENGINEER STEVE DUFOUR 5-24-94
APPROVED R. O'Connell 5/24/94
COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT
TITLE
MODEL 118
OVERALL WIRING DIAGRAM
MATERIAL
FINISH
SIZE D
DRAWING NUMBER 10984AA
REV. 00
SCALE
SHEET 1 OF 4
E10770AB 118
NEXT ASSY
USED ON
APPLICATION

MOTHER BOARD

J413	P413				P413	J413	
8	8	KEYPADm			16		
7	7	KBDMARKm	KBDSTBm		15	15	J183-15
6	6	KBDRST	KBDIBF		14	14	J183-14
5	5	KBDSHLKm	KBDA		13	13	J183-13
4	4	KBDBUSYm	KBD3		12	12	J183-12
3	3	+5V	KBD2		11	11	J183-11
2	2	GND	KBD1		10	10	J183-10
1	1	CHASSIS1	KBD0		9	9	J183-9

J414	P414				P414	J414	
25	25				50	50	
24	24				49	49	
23	23				48	48	
22	22	GND			47	47	
21	21	DTR1			46	46	J189-8
20	20	TXD1	CTS1		45	45	J189-6
19	19	RXD1	RTS1		44	44	J189-7
18	18		DSR1		43	43	J189-5
17	17		GND		42	42	J189-13
16	16				41	41	J189-12
15	15				40	40	J189-11
14	14				39	39	J189-10
13	13		LANLED		38	38	J189-9
12	12	-NET	LANRXR5		37	37	J189-8
11	11	+NET	LANRXR4		36	36	J189-7
10	10		LANRXR3		35	35	J189-6
9	9		LANRXR2		34	34	J189-5
8	8		LANRXR1		33	33	J189-4
7	7		LANRXR0		32	32	J189-3
6	6				31	31	J189-2
5	5	GND			30	30	J189-1
4	4	DTR2			29	29	J118-8
3	3	TXD2	CTS2		28	28	J118-8 → J7P1
2	2	RXD2	RTS2		27	27	J118-7 → J7P1
1	1				26	26	J118-6

J401	P401				P401	J401	
6	6	FCCGENm	GND		12	12	J783-3
5	5	MCCGENm	-KEYED-		11	11	
4	4				10	10	
3	3		ECGSHLD		9	9	J783-8
2	2	RL	RL		8	8	
1	1	LA	RA		7	7	J783-7

J402	P402				J402	P402	
3	3	+KEYED-	SIPm		6	6	J781-10
2	2	GND	GND		5	5	J781-9
1	1	USIENm	TELMTRYm		4	4	J781-8

J403	P403				P403	J403	
3	3	GND	SIPm		6	6	J782-10
2	2	GND	-KEYED-		5	5	
1	1	USIENm	TELMTRYm		4	4	J782-8

J404	P404				P404	J404	
4	4	PRESS-	GND		8	8	
3	3	PRESS+	+KEYED-		7	7	
2	2	TUPGNm	EXCITRDY		6	6	J784-6
1	1	TCCGENm	BRGCKIT		5	5	J784-4

J415	P415				P415	J415	
12	12	+5V	LA MODE		24	24	J182-24
11	11		HRDXFER		23	23	J182-23
10	10	TELMTRYm	1.2HRZ		22	22	J182-22
9	9	BAUDOUT			21	21	J182-21
8	8	BAUD2OUT	MARKOUTm		20	20	J182-20
7	7	1.2HR1			19	19	J182-19
6	6	-15V	CHCKWRPm		18	18	J182-18
5	5	+15V	HR1 MODE		17	17	J182-17
4	4	SBDBECO	TELMTRY4		16	16	J182-16
3	3	GNDA			15	15	J182-15
2	2	1.2PRESS			14	14	J182-14
1	1	HR2 MODE	HRIXFER		13	13	J182-13

J406	P406
3	3
2	2
1	1

P407	J407	
3	3	-KEYED-
FAN-BLK 2	2	GNDA
FAN-RED 1	1	FANm

J412	
J2-1	+NET
J2-2	-NET

J409	P409		
J383-11	12	12	GNDLS
J383-12	11	11	+15V
J383-4	10	10	+5V
J383-2	9	9	SYNCGND
J383-1	8	8	SYNC
J383-6	7	7	MOTVCTRL
J383-5	6	6	MOTEN
J383-8	5	5	GNDA
	4	4	-KEYED-
J383-3	3	3	MOTCLK
J383-10	2	2	+15CRTN
J383-9	1	1	HDCOM

J416	P416				P416	J416	
SPKR-2	10	10	SPKRCOM	SPKROUT	20	20	SPKR-1
	9	9			19	19	
S182-1	8	8	ECGART	CHART2	18	18	S182-3
S182-3	7	7	GND	CHART1	17	17	S182-4
	6	6			16	16	
	5	5			15	15	
J187-2	4	4	ECGTSCOM	ECGTEST	14	14	J187-1
J185-1	3	3	GND	PPPPWR	13	13	J185-2
J185-1	2	2	GND	FAST	12	12	J185-2
J184-2	1	1	GNDA	BBDBECO	11	11	J184-1

J424	P424				P424	J424	
J281-5	5	5	GND	GND	10	10	J281-27
J281-4	4	4	SELECT	ALARMCNCL	9	9	J281-26
J281-3	3	3	BP STOP	AUTO/MAN	8	8	J281-25
J281-2	2	2	SETUP	DOWNARROW	7	7	J281-24
J281-1	1	1	BP START	UPARROW	5	6	J281-23

J425	P425				P425	J425	
P1-5	5	5	GND	RTS4	10	10	P1-10
P1-4	4	4	+5V	GND	9	9	P1-9
P1-3	3	3	CTS4	+5V	8	8	P1-8
P1-2	2	2	RXD4	SYSRSm	7	7	P1-7
P1-1	1	1	GND	TXD4	6	6	P1-6

J426	P426				P426	J426	
	5	5	-KEYED-	CTS3	10	10	P3-1
P1-1	4	4	GNDA	GNDA	9	9	P3-3
P1-2	3	3	GNDA	TXD3	8	8	P3-4
P1-8	2	2	+12V	RXD3	7	7	P3-5
P1-9	1	1	+12V	RTS3	6	6	P3-6

J410	P410				P410	J410	
J382-9	12	12	MOSHTON				
J382-7	11	11	AUDRTN				
	10	10	-KEYED-				
J382-3	9	9	GND				
J382-2	8	8	GND				
J382-1	7	7	+5V				
J382-4	6	6	-15V				
J382-12	5	5	+22V				
J382-10	4	4	VHD				
J382-5	3	3	+15US				
J382-6	2	2	+15C				
J382-8	1	1	PROSSENS				

J405	P405				P405	J405	
	17	17	GND	GND	34	34	
	16	16	DLSPCLK	DLSPDYCK	33	33	
J281-20	15	15	RECONOFF	GND	32	32	
J281-19	14	14	LEDDm	DLSPCHm	31	31	J281-41
J281-18	13	13	GND	GND	30	30	J281-40
	12	12	DLSPCLKm	DD8	29	29	
J281-16	11	11	URXDT	TEST	28	28	J281-38
	10	10	DLSPRSm	DD1	27	27	
J281-14	9	9	PANGRADJ	DLSPWRm	26	26	
J281-13	8	8	MARK	DD0	25	25	
	7	7	DA1	GND	24	24	
	6	6	DD3	GND	23	23	
	5	5	DA2	DA3	22	22	
J281-9	4	4	HR2VOL-	DA4	21	21	
	3	3	DD2	DD2	20	20	
J281-7	2	2	HR2VOL+	GND	19	19	
J281-6	1	1	HR1VOL+	HR1VOL-	18	18	J281-29

J408	P408				P408	J408	
	13	13			26	26	
S4581-2	12	12	DOOR	GND	25	25	S4581-1
PS84-4	11	11	PLOW DET	OPTODRR	24	24	PS84-1
PS84-2	10	10	GND	GND	23	23	PS84-3
PS83-4	9	9	POUT DET	OPTODRB	22	22	PS83-1
PS83-2	8	8	GND	GND	21	21	PS83-3
PS82-3	7	7	+5V	GND	20	20	PS82-1
PS82-4	6	6	DOTCLK	LOADm	19	19	PS82-3
PS82-5	5	5	PHDSTBm		18	18	
PS81-1	4	4	PDATA	PHDSTBm	17	17	PS82-7
PS81-3	3	3	PHDSTBm	PHDSTBm	16	16	PS81-2
PS81-5	2	2	HDCOM	HDCOM	15	15	PS81-4
PS81-7	1	1	VHD	VHD	14	14	PS81-6

SEE SHEET 1								
REV	ECN	DESCRIPTION			QTY	DATE	CHKD	APPD

POWER ON LED: GRN, RED

POWER SUPPLY BOARD 8370

J384	P384		
3	3	-KEYED-	
2	2	POWERONLED	
1	1	GND	

J385	P385				P385	J385	
	4	4	MOTSEL	MOUT4	8	8	M1-WHITE
	3	3	-KEYED-	MOUT3	7	7	M1-YELLOW
JUMPER	2	2	N/C	MOUT2	6	6	M1-WHITE
	1	1	MOTORGND	MOUT1	5	5	M1-YELLOW

J383	P383				P383	J383	
J409-7	6	6	MOTVCTRL	+15V	12	12	J409-11
J409-6	5	5	MOTEN	GNDLS	11	11	J409-12
J409-10	4	4	+5V	+15CRTN	10	10	J409-2
J409-3	3	3	MOTCLK	HDCOM	9	9	J409-1
J409-9	2	2	SYNCGND	GNDA	8	8	J409-5
J409-8	1	1	SYNC	-KEYED-	7	7	

J382	P382				P382	J382	
J410-2	6	5	+15C	+22V	12	12	J410-5
J410-3	5	5	+15US	-KEYED-	11	11	
J410-5	4	4	-15V	VHD	10	10	J410-4
J410-9	3	3	GND	MOSHTON	9	9	J410-12
J410-8	2	2	GND	PROSSENS	8	8	J410-1
J410-7	1	1	+5V	AUDRTN	7	7	J410-11

CHART RECORDER ASSEMBLY

STEPPER MOTOR: YEL, WHT, M1, YEL, WHT — P385-5, P385-6, P385-7, P385-8

DOOR SWITCH SW581: J408-25, J408-12 — SWITCH OPEN WHEN DOOR CLOSED

JS83: PS83-1, PS83-2, PS83-3, PS83-4

JS84: PS84-1, PS84-2, PS84-3, PS84-4

PS83	PAPER OUT	PS83	
J408-9	2	POUT DET	4
J408-22	1	GND	3

PS84	PAPER LOW	PS84	
J408-11	3	PLOW DET	4
J408-24	1	GND	3

PS81	
7	VHD
6	VHD
5	HDCOM
4	PHDSTBm
3	PHDSTBm
2	PHDSTBm
1	PDATA

PS82	
7	PHDSTBm
6	PHDSTBm
5	
4	DOTCLK
3	LOADm
2	+5V
1	GND

J408-1	J408-14	J408-2	J408-15	J408-3	J408-16	J408-4	J408-17	J408-5	J408-18	J408-7	J408-20

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES 0.020MAX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ± ___

2 PLACE DECIMALS ± ___

3 PLACE DECIMALS ± ___

ANGLES ± ___

DRAWN	JOHN CUSANO	DATE	5/9/94
CHECKED	B. SMOTHELL	DATE	5-12-94
APPROVED	STEVE DUFOUR	DATE	5-24-94
APPROVED	R.O. Connell	DATE	5/24/94

COROMETRICS® MEDICAL SYSTEMS, INC. 62 BARNES INDUSTRIAL PARK, WALLINGFORD, CONNECTICUT

TITLE: MODEL 118 OVERALL WIRING DIAGRAM

EIGHTOTAB	118
NEXT ASSY	USED ON
APPLICATION	

MATERIAL: ~ FINISH: ~

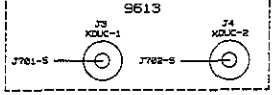
SIZE D — DRAWING NUMBER 10984AA — REV 00

SCALE ~ SHEET 2 OF 4

15-44

REV	ECN	DESCRIPTION	APP	DATE	CHKD	APPD
		SEE SHEET 1				

ULTRASOUND BOARD 9613



MULTIFUNCTION BOARD 7931

	J3	P3		J4	P4	
	3	3	-KEYED-	3	3	-KEYED-
J701-2	2	2	SHIELD	2	2	SHIELD
J701-1	1	1	CWCAR	1	1	CWCAR
J702-2						
J702-1						

PERIPHERAL BOARD 10621

	P2	J2	
	3	3	-KEYED-
J412-1	2	2	+NET
J412-2	1	1	-NET

PERIPHERAL BOARD 10621

	J3	P3			P3	J3	
PO-15	15	15	VID	GND	16	16	PO-16
PO-13	13	13	VCLK	GND	14	14	PO-14
PO-11	11	11	HS	GND	12	12	PO-12
PO-9	9	9	VS	GND	10	10	PO-10
PO-7	7	7	GND	GND	8	8	PO-8
PO-5	5	5			6	6	PO-6
PO-3	3	3	VL	VL	4	4	PO-4
PO-1	1	1	VH	VH	2	2	PO-2

DISPLAY SECTION DISPLAY POWER SUPPLY

	JP2				JP6		
P3-15	15	15	VID	GND	16	16	P3-16
P3-13	13	13	VCLK	GND	14	14	P3-14
P3-11	11	11	HS	GND	12	12	P3-12
P3-9	9	9	VS	GND	10	10	P3-10
P3-7	7	7	GND	GND	8	8	P3-8
P3-5	5	5			6	6	P3-6
P3-3	3	3	VL	VL	4	4	P3-4
P3-1	1	1	VH	VH	2	2	P3-2

	JP3				JP3		
	25	25			26	26	
	23	23			24	24	
	21	21			22	22	
P1-19	19	19			20	20	P1-20
P1-17	17	17			18	18	P1-18
P1-15	15	15			16	16	P1-16
P1-13	13	13			14	14	P1-14
P1-11	11	11			12	12	P1-12
P1-9	9	9			10	10	P1-10
P1-7	7	7			8	8	P1-8
P1-5	5	5			6	6	P1-6
P1-3	3	3			4	4	P1-4
P1-1	1	1			2	2	P1-2

DISPLAY SECTION PLANAR DISPLAY TO POWER SUPPLY

	J1	P1			P1	J1	
JP3-19	19	19			20	20	JP3-20
JP3-17	17	17	-KEYED-		18	18	JP3-18
JP3-15	15	15			16	16	JP3-16
JP3-13	13	13			14	14	JP3-14
JP3-11	11	11			12	12	JP3-12
JP3-9	9	9			10	10	JP3-10
JP3-7	7	7			8	8	JP3-8
JP3-5	5	5			6	6	JP3-6
JP3-3	3	3			4	4	JP3-4
JP3-1	1	1			2	2	JP3-2

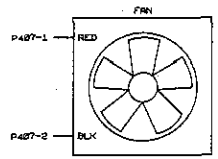
SP02 MODULE

	J1	P1			P1	J1	
P425-5	5	5	GND		10	10	P425-10
P425-4	4	4	+5V	GND	9	9	P425-9
P425-3	3	3	CTS4	+5V	8	8	P425-8
P425-2	2	2	RXD4	SYSRSN	7	7	P425-7
P425-1	1	1	GND	TXD4	6	6	P425-6

BP MODULE

	J1	P1	
P426-1	9	9	GNDA
P426-2	8	8	GNDA
	7	7	
	6	6	
	5	5	
	4	4	
	3	3	
P426-3	2	2	+12V
P426-4	1	1	+12V

	J3	P3	
P426-6	6	6	RTS3
P426-7	5	5	RXD3
P426-8	4	4	TXD3
P426-9	3	3	GNDA
	2	2	
P426-10	1	1	CTS3



PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES °

DRAWN	JOHN CUSANO DATE 5/9/94
CHECKED	B. SHOTWELL DATE 5-12-94
ENGINEER	STEVE DUFOUR DATE 5-24-94
APPROVED	R O'Connell DATE 5/24/94

COROMETRICS MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

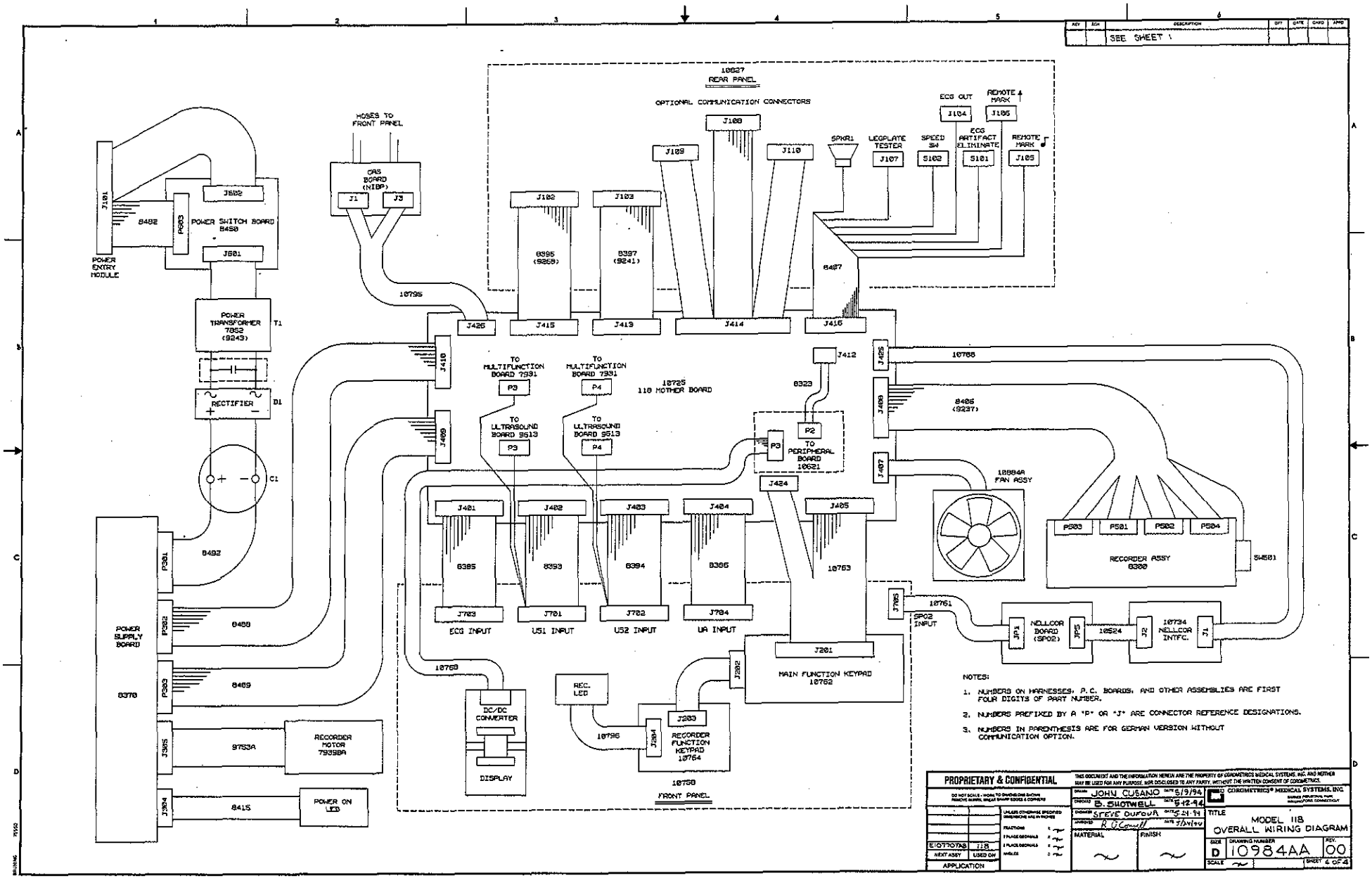
TITLE: MODEL 118 OVERALL WIRING DIAGRAM

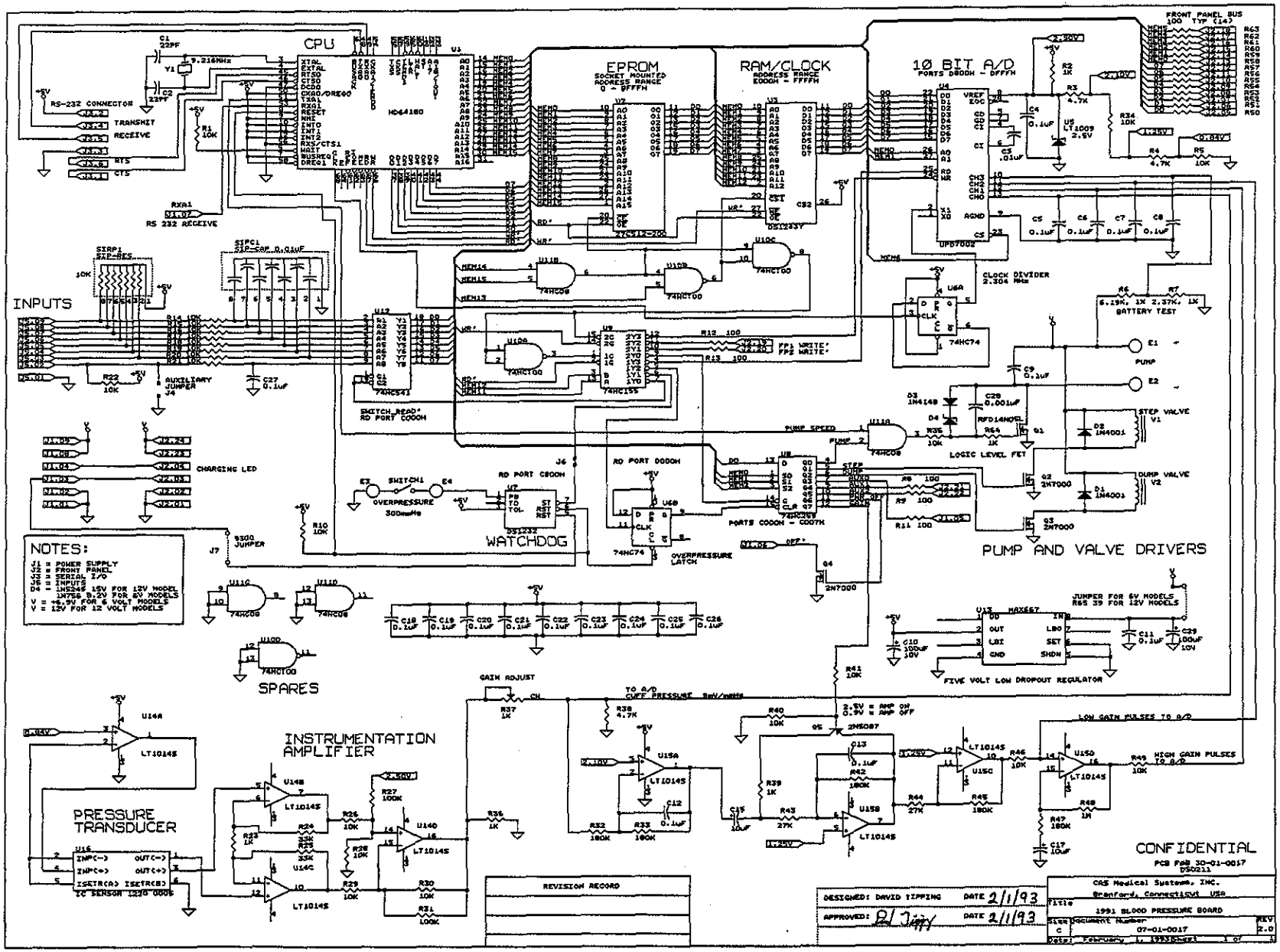
E107078	118
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~ FINISH ~

SIZE	DRAWING NUMBER	REV.
D	10984AA	00

SCALE ~ SHEET 3 OF 4


SEE SHEET 1
10827
REAR PANEL
OPTIONAL COMMUNICATION CONNECTORS
ECG OUT
REMOTE MARK
J104
J106
SPKR1
LEGPLATE TESTER
SPEED SW
ECG ARTIFACT ELIMINATE
REMOTE MARK
J107
S102
S101
J105
J108
J109
J110
J102
J103
8395 (9268)
8397 (9241)
8407
HOSES TO FRONT PANEL
CAS BOARD (NIBP)
J1
J3
10795
J101
8482
P303
POWER SWITCH BOARD 8458
J302
J301
POWER ENTRY MODULE
POWER TRANSFORMER 7852 (9243)
T1
RECTIFIER
D1
C1
8492
8468
8469
8470
POWER SUPPLY BOARD
P301
P302
P303
J305
J304
9753A
RECORDER MOTOR 7939BA
8415
POWER ON LED
J425
J415
J413
J414
J415
J410
J409
J412
8323
TO MULTIFUNCTION BOARD 7931
TO MULTIFUNCTION BOARD 7931
P3
P4
10725
110 MOTHER BOARD
TO ULTRASOUND BOARD 9513
TO ULTRASOUND BOARD 9513
P3
P4
P2
P3
TO PERIPHERAL BOARD 10621
J424
J401
J402
J403
J404
J405
6385
8393
8394
8386
10763
J703
J701
J702
J704
ECG INPUT
US1 INPUT
US2 INPUT
UA INPUT
J201
MAIN FUNCTION KEYPAD 10762
10768
DC/DC CONVERTER
DISPLAY
REC. LED
J202
J203
J204
10796
RECORDER FUNCTION KEYPAD 10764
10758
FRONT PANEL
J425
10766
J409
8406 (9237)
J407
10884A FAN ASSY
P503
P501
P502
P504
RECORDER ASSY 8300
SW501
J705
SPO2 INPUT
10761
J P4
NELLCOR BOARD (SPO2)
J P5
10824
J2
10734 NELLCOR INTFC.
J1
NOTES:
1. NUMBERS ON HARNESSES, P.C. BOARDS, AND OTHER ASSEMBLIES ARE FIRST FOUR DIGITS OF PART NUMBER.
2. NUMBERS PREFIXED BY A "P" OR "J" ARE CONNECTOR REFERENCE DESIGNATIONS.
3. NUMBERS IN PARENTHESIS ARE FOR GERMAN VERSION WITHOUT COMMUNICATION OPTION.
PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF DATASCOPE® MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF DATASCOPE.
DRAWN JOHN CUSANO 5/9/94
CHECKED B. SHOTWELL 5-12-94
ENGINEER STEVE DuBOUA 5-24-94
APPROVED R. Cavell 5/24/94
DATASCOPE® MEDICAL SYSTEMS, INC.
MAHWAH, PARAMUS, PARSIPPANY, NEW MILFORD, CONNECTICUT
TITLE
MODEL 118
OVERALL WIRING DIAGRAM
MATERIAL
FINISH
SIZE D
DRAWING NUMBER 10984AA
REV. 00
SCALE
SHEET 4 OF 4
EIOTTOTAB 118
NEXT ASSY
USED ON
APPLICATION


CPU
EPROM
SOCKET MOUNTED
ADDRESS RANGE
0 - 0FFFH
RAM/CLOCK
ADDRESS RANGE
E000H - FFFFH
10 BIT A/D
PORTS D800H - DFFFH
FRONT PANEL BUS
100 TYP (14)
RS-232 CONNECTOR
TRANSMIT
RECEIVE
RTS
CTS
RS 232 RECEIVE
INPUTS
AUXILIARY JUMPER J4
SWITCH_READ*
RD PORT C000H
CHARGING LED
NOTES:
J1 = POWER SUPPLY
J2 = FRONT PANEL
J3 = SERIAL I/O
J4 = INPUTS
J5 = INA2248 15V FOR 12V MODEL
INT65 9.2V FOR 6V MODELS
V1 = +6.9V FOR 6 VOLT MODELS
V1 = 12V FOR 12 VOLT MODELS
9600 JUMPER
OVERPRESSURE
300mmHg
RD PORT C800H
WATCHDOG
RD PORT D000H
OVERPRESSURE LATCH
PORTS C000H - C007H
CLOCK DIVIDER
2.304 MHz
BATTERY TEST
PUMP
STEP VALVE
V1
DUMP VALVE
V2
LOGIC LEVEL FET
PUMP AND VALVE DRIVERS
JUMPER FOR 6V MODELS
R65 39 FOR 12V MODELS
FIVE VOLT LOW DROPOUT REGULATOR
SPARES
GAIN ADJUST
TO A/D
CUFF PRESSURE 5mV/mmHg
INSTRUMENTATION
AMPLIFIER
PRESSURE
TRANSDUCER
LOW GAIN PULSES TO A/D
HIGH GAIN PULSES TO A/D
CONFIDENTIAL
PCB P&N 30-01-0017
DS0211
REVISION RECORD
DESIGNED: DAVID TIPPING
DATE 2/1/93
APPROVED:
DATE 2/1/93
CAS Medical Systems, INC.
Branford, Connecticut USA
Title
1991 BLOOD PRESSURE BOARD
Size C
Document Number
07-01-0017
REV 2.0
Date: February 1, 1993
Sheet 1 of 1

ASSEMBLY DRAWINGS AND PARTS LISTS

This section of the manual provides the Model 118 Maternal / Fetal Monitor assembly drawings and parts lists. The assembly drawings and parts lists are used in conjunction with the associated schematics and block diagrams in Section 15 of this manual. A complete listing of all Model 118 Maternal / Fetal Monitor assembly drawings and parts lists is given in the Table of Contents of this manual.

REFERENCE DOCUMENTATION

The Corometrics Factory makes every effort possible to provide the most up-to-date reference documentation for your Corometrics equipment. However, in special cases involving field installed upgrades, the revision level of a schematic, assembly drawing, or parts list in this manual may not reflect the revision level of your unit's subassemblies. When discrepancies are found, contact the Corometrics Service Department at one of the numbers listed at the end of this section.

PARTS REPLACEMENT

The Model 118 Maternal / Fetal Monitor employs standard electrical components and hardware when practical. However, certain subassemblies may require special components which are available through Corometrics. Material contained in this section is intended for general reference use only and not for direct ordering of replacement parts. Questions regarding the suitability or nature of a replacement part should be resolved with the Corometrics Service Department. To expedite the clarification process, it is suggested that the following steps be taken:

1. Obtain the serial number listed on the monitor's rear panel.

2. Note any identification data on the subassembly in question. Printed circuit boards are identified by a code printed along one edge of the board.

3. Locate and identify any components in question by referring to the assembly drawings and their associated parts lists presented in this section.

4. Finally, call the Corometrics Service Department at one of the following numbers:

   Inside the United States:
   1-800-808-CORO (2676)

   Outside the United States:
   (203) 265-5631;
   or contact your local distributor

NOTES:

1—ADHESIVE BOND CONTACT PLATE, ITEM 3, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 9. DO NOT PERMIT EXCESSIVE ADHESIVE TO REMAIN ON BOTTOM OF BASE. ALLOW 3 HRS ROOM TEMP. TO CURE.

2—ADHESIVE BOND BEND RELIEF BUSHING, ITEM 6, TO BASE, ITEM 1, WITH ADHESIVE, ITEM 10, AFTER PROCEDURE IN NOTE 5.

3—FILL BASE CAVITY WITH Hysol 4X ADHESIVE ITEM 7, TO COVER ALL COMPONENTS BUT DO NOT ALLOW ON TOP SEAT LIP ALL AROUND. ALLOW 1 HR. ROOM TEMP. TO CURE.

4—ADHESIVE BOND TOP, WITH HOT STAMP DOTS ORIENTED AT PUSH POSTS, TO BASE USING ITEM 10. DO NOT PERMIT ADHESIVE TO CONTACT ANY APPEARANCE SURFACE.

5—SOLVENT BOND BEND RELIEF BUSHING TO CABLE JACKET WITH ITEM 11.

NOTES: CONT'D

6—FILL UNUSED HOLES IN HOUSING WITH CONTACTS, ITEM 19.

7—TIE THREE SHIELDS TOGETHER AND CONNECT TO PIN #8

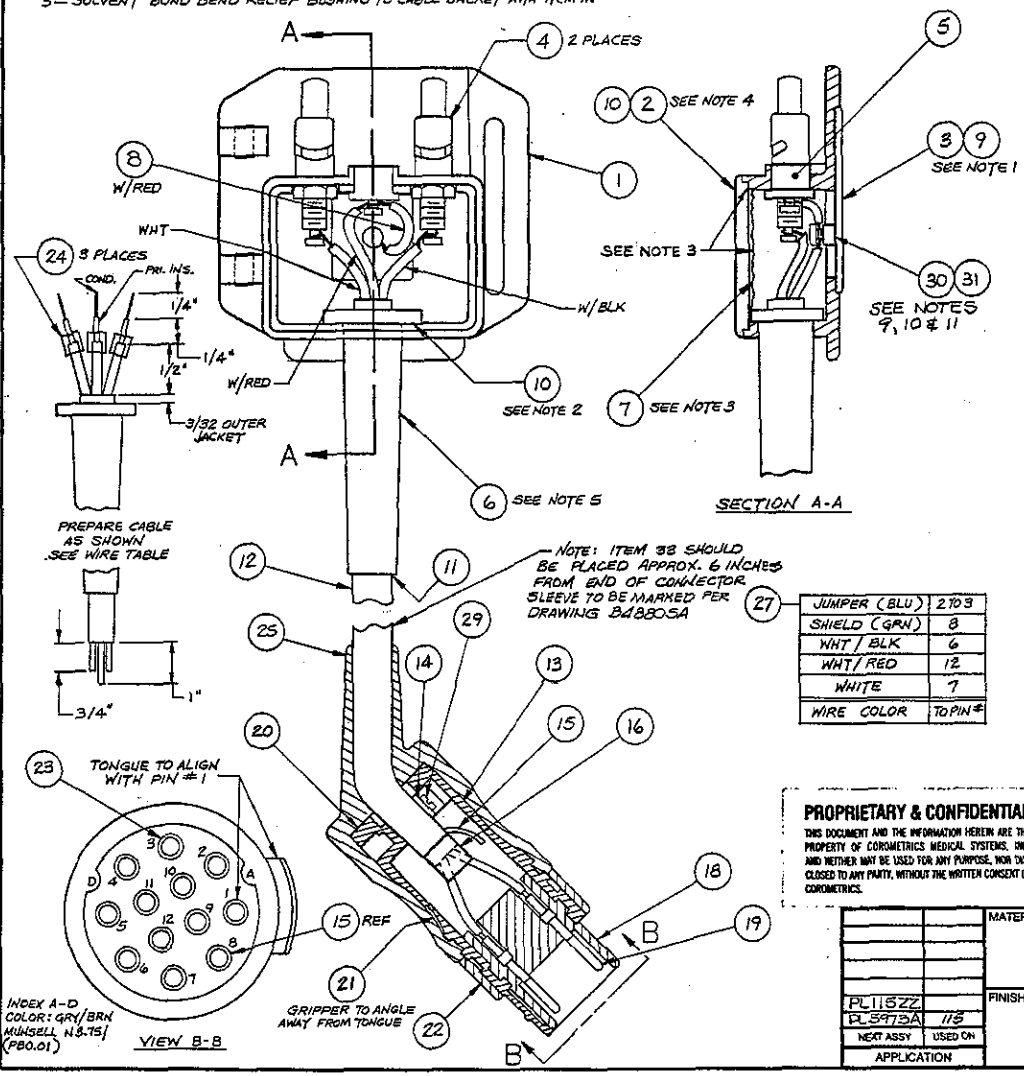
8—PROTECT CONTACT PLATE FROM BEING SCRATCHED DURING HANDLING.

9—MAINTAIN UNBLEMISHED APPEARANCE SIDE OF PLATE.

10—SOLDER STUD TO BURR SIDE OF CONTACT PLATE.

11—CENTER STUD TO SMALL OPENING WITHIN ±3/32"

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
00	NEW 'D' PER ECN 5544	VS	1/87	
01	ECN 6201, ITEM 2 WAS B6162AA, JA		9/21/88	
02	ECN 6634 ITEM 7 WAS 160063		5/89	
03	ECN 6442 ITEM 26 WAS S779AA		6/89	
04	ECN 8812, ITEM 33 WAS 608080		12/11/92	RJS



27	WIRE COLOR	TO PIN #
	JUMPER (BLU)	2 10 3
	SHIELD (GRN)	8
	WHT / BLK	6
	WHT / RED	12
	WHITE	7

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
REV 04	1	33	44-0011	LABEL, 2.25 X .75
	1	32	82023AA	LEG PLATE STRAP
A/R	31		540068	SOLDER, SN 40
1	30		A6185AA	STUD
2	29		210182	SCREW CLAMP, M 2.6 X 10
1	28	NOT SHOWN	410112	AIRCAP BAG
1"	27	JUMPER	605106	WIRE, #24 AWG, BLU
1	26	NOT SHOWN	A5979DA	LABEL
1	25		210184	GRIPPER, 5-7mm
3/4"	24		608028	SHRINK TUBING 1/8" I.D.
1	23		210226	CONTACT, MALE, 18 mm LG
1	22		210178	RING, PLASTIC 21.8 X 4
1	21		210176	PLASTIC RING
1	20		210186	HALF-SHELL W/CLAMP 5-7MM
11	19		210227	CONTACT, MALE 16.5mm
1	18		212133	PLUG, 12CKT GREY/BRN, A-D
	17			
1/4"	16		608048	SHRINK TUBING
1.5"	15	SHIELD	605105	WIRE, #24 AWG, GRN
1	14		210181	CLAMP, 3-7MM
1	13		210179	HALF-SHELL W/TONGUE
62	12		A5821AA	CABLE 3 COND SHIELDED
A/R	11		160007	SOLVENT VC-1
A/R	10		160034	ADHESIVE, LOCITE #414
A/R	9		160064	ADHESIVE - HARDMAN 04023
1"	8		605112	WIRE, #24 AWG, W/RED
0	7		160081	HYSOL 4X ADHESIVE
1	6		B5847CA	BEND RELIEF BUSHING
1	5		A6184AA	TERMINAL
2	4		B2604AA	POST, PUSH MODIFIED
1	3		A5876CA	CONTACT PLATE
1	2		C6162CA	TOP, LEG PLATE
1	1		C6163CA	BASE, LEG PLATE

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

PL115ZZ	
PL5975A	115
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN WAGOODITY DATE 2/17/84
CHECKED R. Wood DATE 1-4-85
ENGINEER MB DATE 1-4-85
APPROVED RJS DATE 1/4/85

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± ~
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

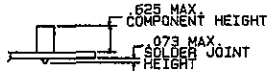
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE CAT. NE 2608DAO -115-LEG PLATE ASSEMBLY

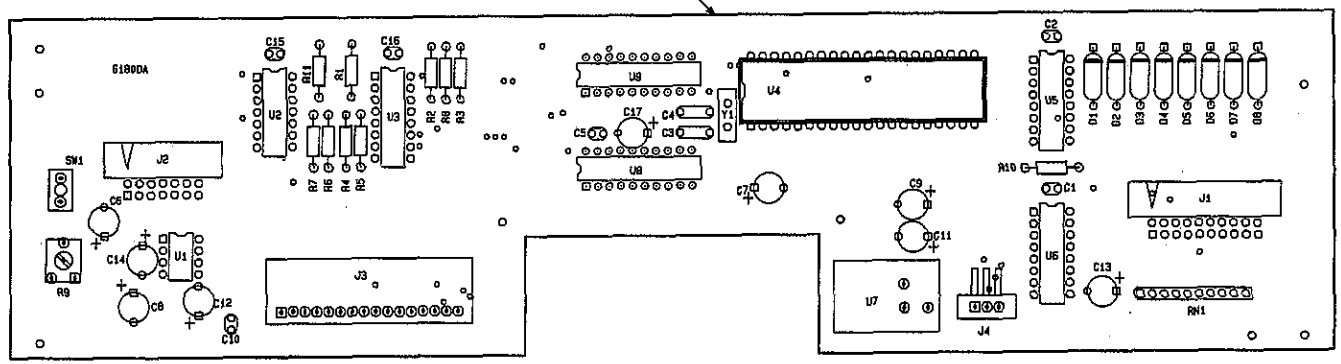
SIZE C | DRAWING NUMBER 5846D | REV. 04

SCALE NONE | SHEET 1 OF 1

REV	SCH	DESCRIPTION	DFT	DATE	CHKD	APPD
00	5967	NEW A/W	RL	2/88		
01	6394	ITEM 23 WAS 71128	RL	11/4		



NOTES:
1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 6180BC
4-FOR PARTS LIST SEE P/L 6180B



PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± X
2 PLACE DECIMALS ± .X
3 PLACE DECIMALS ± .XX
ANGLES ± X°

NEXT ASSY	USED ON
7102A	2116
APPLICATION	

DRAWN R. LIBBY DATE 2/1/88
CHECKED DATE 2/8/88
ENGINEER DATE 2/10/88
APPROVED DATE 2/11/88

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

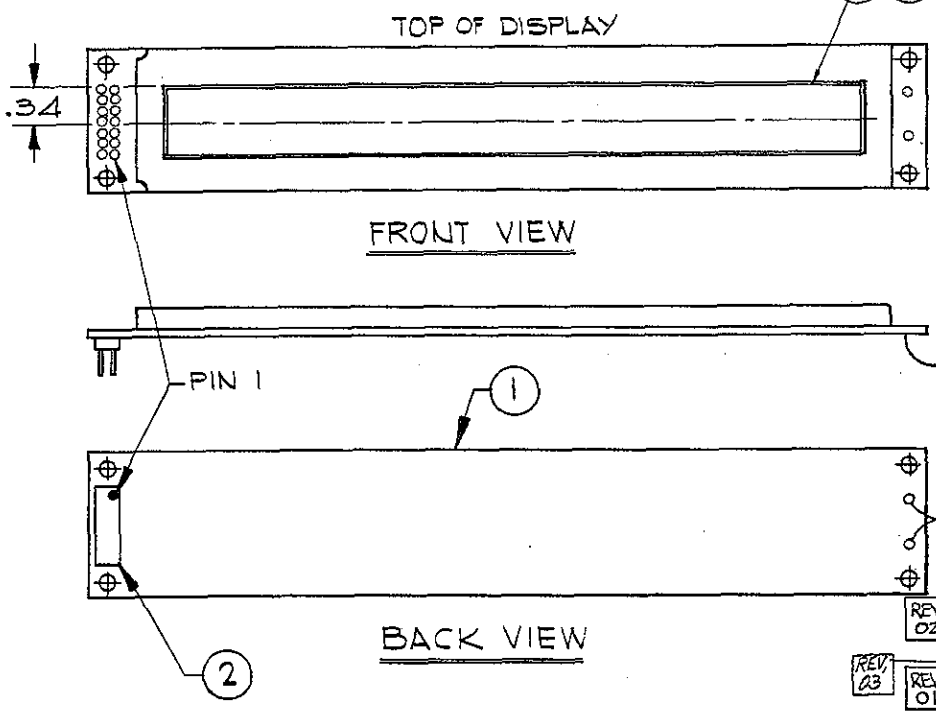
TITLE
KEYBOARD PROCESSOR ASSEMBLY

MATERIAL X
FINISH X

SIZE	DRAWING NUMBER	REV.
C	6180B	01

SCALE 1.5:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW RELEASE BS	1/86	
01	ADDED ITEMS 4&5 AND "REMOVE WHITE ....." ECN 5554 VS	11/86	
02	ITEM 3 WAS P/N 211506, ADD ITEMS 6&7 ECN 5675 VS	2/87	
03	ECN 5817; ITEM 5 WAS 160044 ITEM 7 WAS 210026 PER J.A	6/5/87	



4 5 REMOVE WHITE BACKING PAPER FROM FILTER BEFORE ATTACHING TO DISPLAY WITH TAPE. INSTALL FILTER FLUSH WITH TOP EDGE OF DISPLAY BEZEL. APPLY TAPE BELOW DIMENSION LINE. REV 03

CONNECT TWISTED WIRES TO POSITIONS 1 & 5 ONLY. REV 02

7 INSERT PINS IN ALL CONNECTOR POSITIONS.

REV 03

QTY.	ITEM	REF. DESIG.	PART NUMBER	DESCRIPTION
5	7		210145	CONTACT, MALE
4"	6		605109	WIRE, WHITE #24
.16 FT.	5		310025	TAPE, DOUBLE ADHESIVE
1	4		B7333AA	LCD WINDOW FILTER
1	3		211506	5 CKT HOUSING 1X5
1	2		212207	HEADER 2X7
1	1		390061	LCD DISPLAY

REV 02 · REV 03 · REV 01 · REV 02

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

D7102A	2116
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN	B. SHOTWELL	DATE 1-2-86
CHECKED	[signature]	DATE 4.3.86
ENGINEER	[signature]	DATE 4.4.86
APPROVED	[signature]	DATE 4.4.86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS	± ~
2 PLACE DECIMALS	± ~
3 PLACE DECIMALS	± ~
ANGLES	± ~

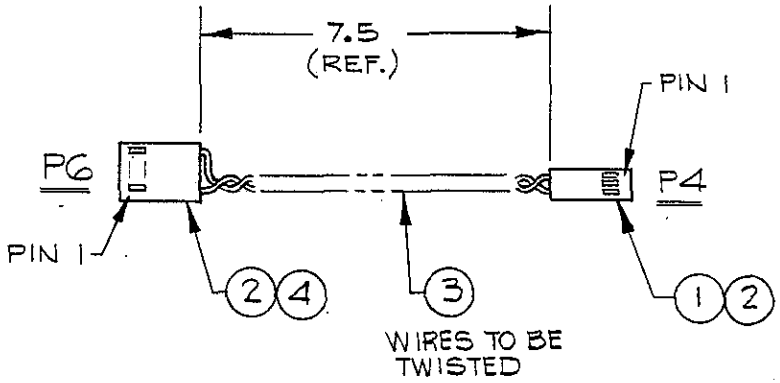
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

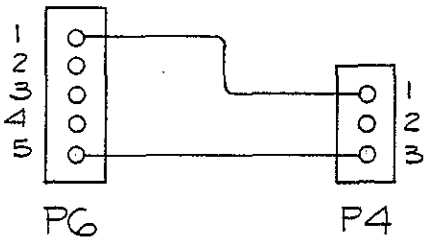
TITLE
2116 KEYBOARD DISPLAY ASSY.

SIZE	DRAWING NUMBER	REV.
B	7064A	03

SCALE FULL | 1/ASSY | SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW RELEASE BS	12/85	





WIRING DIAGRAM

NOTE : INSERT CONTACTS IN ALL CONNECTOR POSITIONS.

QTY.	ITEM	REF. DESIG.	PART NUMBER	DESCRIPTION
1	4		211505	CONNECTOR, 5 CKT
16"	3		605059	WIRE #26 WHT
8	2		210189	CONTACT, FEMALE
1	1		211315	CONNECTOR, 3 CKT. HSNG
A				

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

D7102A	2116
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN B. SHOTWELL DATE 12-20-85
CHECKED S Schnee DATE 4.3.86
ENGINEER M. McCoy DATE 4.4.86
APPROVED D.L. Bundy DATE 4.4.86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/8"
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

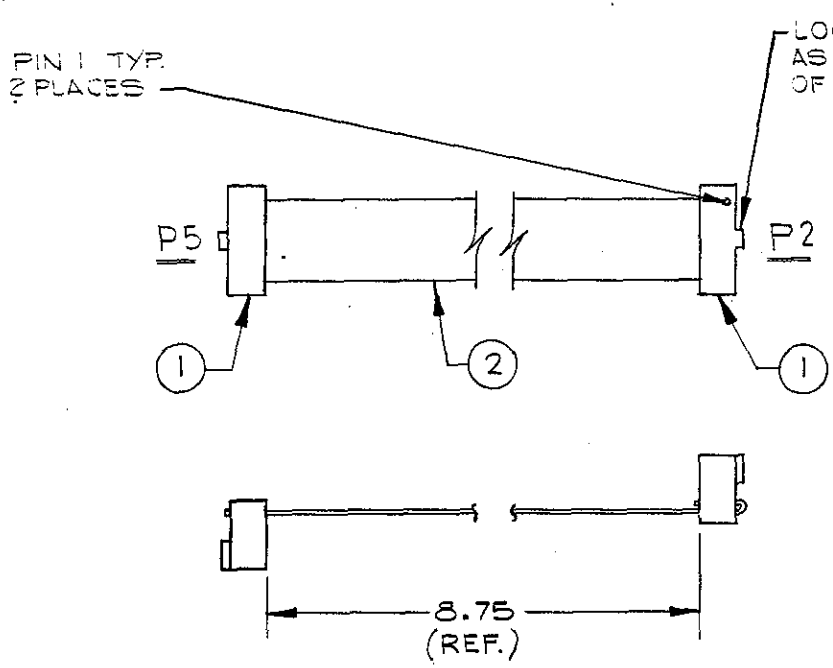
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE 2116 KEYBOARD BACKLIGHT HARN. ASSY.

SIZE	DRAWING NUMBER	REV.
B	7065A	00

SCALE FULL 1/ASSY. SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW RELEASE BS	12/85	
01	REM. P5 STRAIN RELIEF ECN 8253	12/6/91	J.A / RJO



QTY.	ITEM	REF. DESIG.	PART NUMBER	DESCRIPTION
10"	2		600549	CABLE, RIBBON - 14 COND.
2	1		212209	CONNECTOR 14 CKT.

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

D7102A	2116
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN B. SHOTWELL DATE 12-20-85
CHECKED R. Strauss DATE 4-3-86
ENGINEER M. Kelly DATE 4.4.86
APPROVED D.R. Bourke DATE 4.9.86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/8"
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

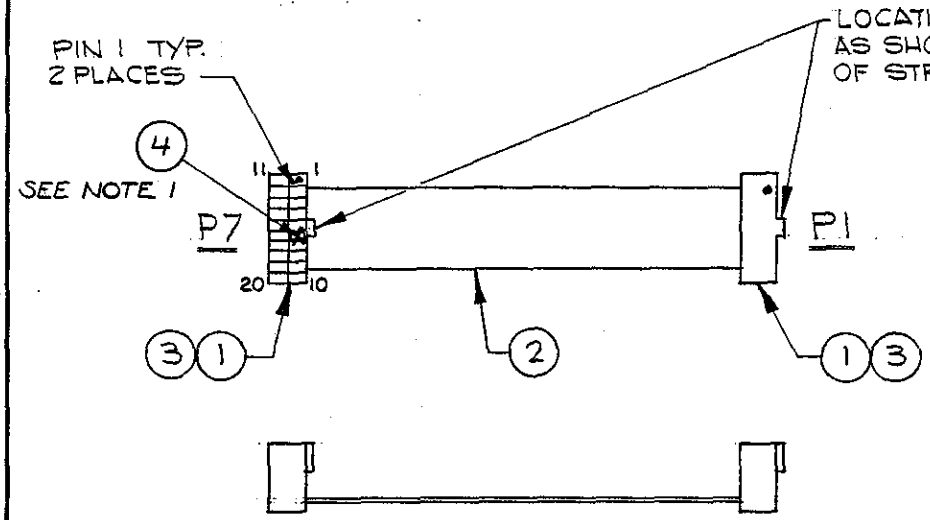
TITLE 2116 KEYBOARD DISPLAY HARN. ASSY.

SIZE	DRAWING NUMBER	REV.
B	7066A	01

SCALE FULL 1/ASSY. SHEET 1 OF 1

16-6

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVAL
00	NEW RELEASE	BS	12/85	
01	ECN 5198 ITEM 2 QTY. WAS 5"	J.A	5/9/86	
02	ECN 5918, ADDED ITEM 4	J.C.	8/87	



NOTE:

1. PLACE ITEM (4) IN POSITION 6 OF P7

REV	QTY.	ITEM	REF. DESIG.	PART NUMBER	DESCRIPTION
02	1	4		210074	LOCATING KEY
	2	3		212509	STRAIN RELIEF
01	7"	2		600526	CABLE, RIBBON - 20 COND.
	2	1		212510	CONNECTOR 20CKT.
	A				

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

2116AAX	
(7102A)	2116
NEXT ASSY	USED ON
APPLICATION	

MATERIAL ~

FINISH ~

DRAWN B. SHOTWELL DATE 12-20-85
CHECKED S. Munso DATE 4.3.86
ENGINEER M. Kelly DATE 4.4.86
APPROVED D.L. Bruder DATE 4.9.86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/8
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

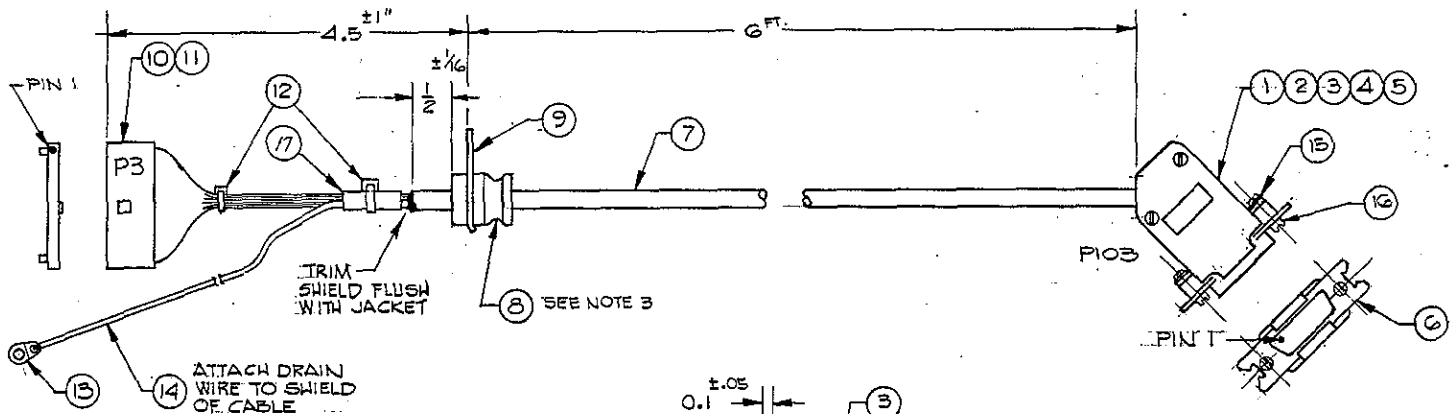
TITLE 2116 KEYBOARD HARNESS ASSY.

SIZE	DRAWING NUMBER	REV.
B	7067A	02

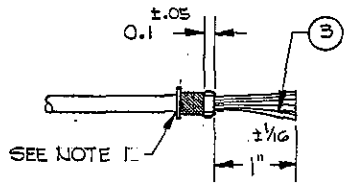
SCALE FULL | 1/ASSY. | SHEET 1 OF 1

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	---	NEW RELEASE	BS	12/85		
*	6134	ITEM 7 WAS 12.6" (QTY. "A")	J.A.	3/2488	BS	BJK
02	7823	SEE ECN	M.T	5/91	BS	
03	9817	#12 WAS QTY 3; ADDED #17	LM	2/94	BS	RJD
00	9980	WAS 7069A; #9 WAS 6934AA	LM	4/94	BS	



NOTES:
1. BOND SMALLEST I.D. STRAIN RELIEF IN POSITION WITH VC-1 AS SHOWN. FOLD SHIELD BACK OVER STRAIN RELIEF.
2.
3. INSTALL STRAIN RELIEF BUSHING ON CABLE BEFORE INSTALLING RELIEF PLATE.



WIRE PREP DETAIL

C DO	QTY	ITEM	REF. DESIG.	PART NUMBER	DESCRIPTION
	.06"	17		608048	SHRINK TUBING 1/4" BLK
	2	16		281516	HEX NUT #4-40
	2	15		285029	WASHER, LOCK #4 SPLIT
	10"	14		605255	WIRE #18 GRN
	1	13		216000	GROUND LUG #4
	2	12		608036	TYRAP
	15	11		210189	CONTACT-FEMALE
	1	10		212358	HOUSING 1X16
	1	9		BG9348A	CABLE ENTRY PLATE
	1	8		608105	STRAIN RELIEF BUSHING
	78"	7		A5882AA	CABLE - KEYPAD
	1	6		212310	SPRING LATCH
	1	5		210223	BACKSHELL SHIELDED
	0	4		160007	SOLVENT CEMENT-VC-1
	2.5"	3		605050	WIRE #26 BLK
	15	2		210191	CONTACT-MALE
	1	1		212311	CONNECTOR 15 CKT.

WIRING CHART

CONN. CONTACT NO.		WIRE	
FROM	TO	COLOR	GAUGE
P3-1	P103-2	GRN	26
-3	-6	ORG	28
-4	-4	BLK	28
-5	-5	WHT	28
-6	-14	BLK/WHT	28
-7	-15	RED/WHT	28
-8	-7	BLU	28
-9	-9	WHT/BLK	28
-10	-10	RED/BLK	28
-11	-11	GRN/BLK	28
-12	-12	ORG/BLK	28
-13	-13	BLU/WHT	28
-16	-3	RED	26
P103-1	———	SHIELD	———
P103-2	P103-8	BLK	26

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 0"
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± .1
ANGLES ± ~

2116 BAX	
(D71028)	115
NEXT ASSY	USED ON
APPLICATION	

DRAWN B. SHOTWELL DATE 12-23-85
CHECKED DATE 4.3.86
ENGINEER M. Kelly DATE 4.4.86
APPROVED DATE 4.4.86

MATERIAL ~
FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

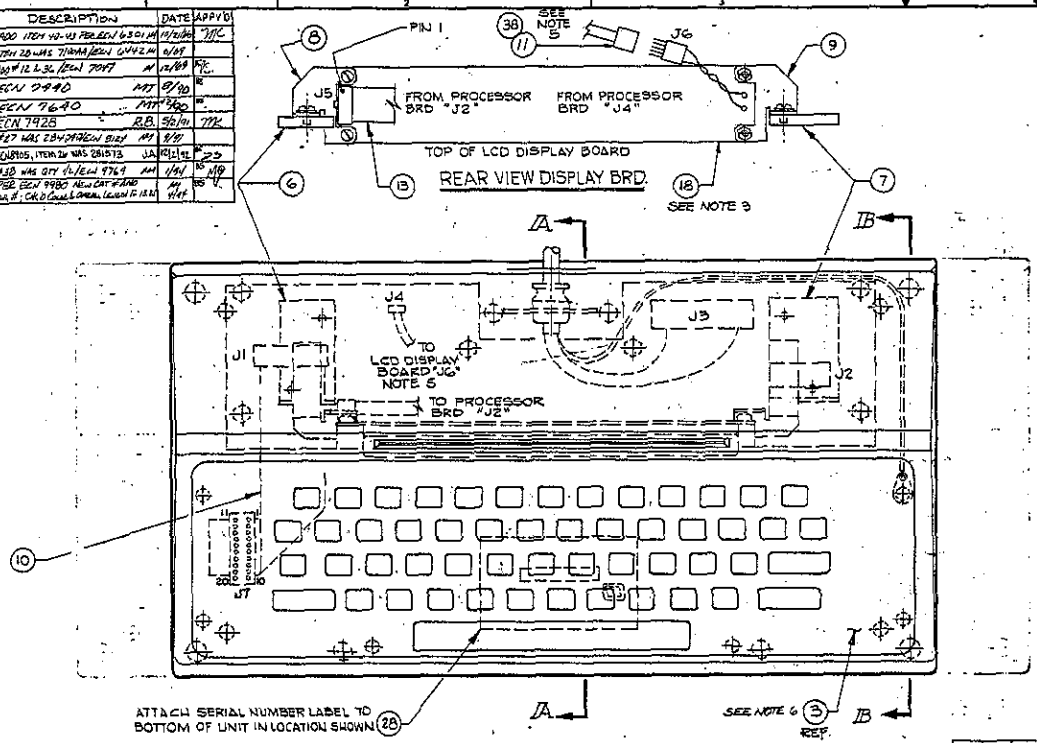
TITLE 2116 KEYBOARD MAIN CABLE ASSY.

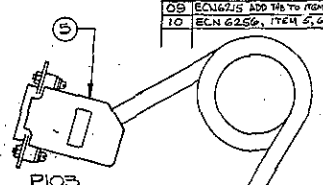
SIZE C | DRAWING NUMBER 7069C | REV. 00
SCALE FULL | 1/ASSY | SHEET 1 OF 1

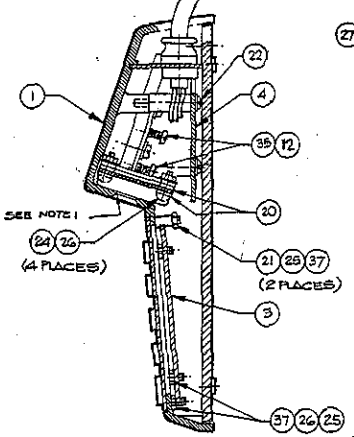
REV.	DESCRIPTION	DATE	APP'D
11	ADD ITEM 10-43 PER ECN 6301	10/31/86	MK
12	ITEM 28 WAS 7104A, ECN 6442	6/89	MK
13	ADD #12 L.W. ECN 7047	12/89	MK
14	ECN 7440	8/90	MK
15	ECN 7640	3/90	MK
16	ECN 7928	5/91	MK
17	#27 WAS 284074 ECN 8187	8/91	
18	ECN 8105, ITEM 24 WAS 281573	12/91	JA
19	#38 WAS QTY 4 ECN 9769	1/94	MK
B 00	PER ECN 9980 NEW CAT # AND DWG #; CHG'D CONN'S, OVERALL LENGTH IS 18.0	4/94	MK

REV.	DESCRIPTION	DATE	APP'D
09	ECN 6215 ADD TAB TO ITEM 13 & CHG LG. P/N	6/6/88	MK
10	ECN 6256, ITEM 5, 6 WAS 10	7/88	MK

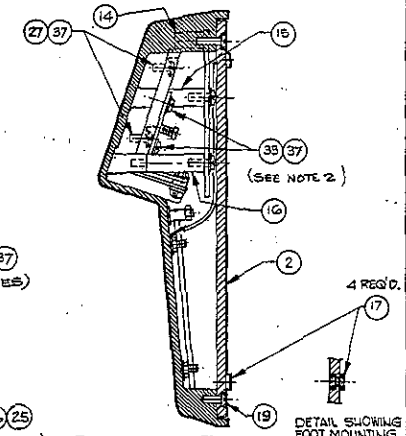
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
00	NEW RELEASE BS	12/85	
01	ECN 5290 J.A. ITEM 19 WAS 284010	4/86	MK
02	ADDED NOTE 8 ECN 5564 VS	11/86	MK
03	ITEM 19 WAS 286252, QTY OF ITEM 25 WAS 4, QTY OF 26 WAS 10 ADDED NOTE 4 ECN 5908	2/87	MK
04	ECN 5946, ITEM 37 WAS 285422 JA	2-6-87	MK 2-6-87
05	ADD ITEM 38 ADD NOTE 9 ECN 5978 VS	3/87	MK
06	SEE ECN 5918 JC	6/87	MK
07	ECN 5956, ADD ITEM 39, ITEM 19 WAS 286270 ITEM 2 WAS D692IAA JA	9/87	MK
08	ECN 6367 ITEM 4 WAS P/N 6180A J.C.	2/88	MK





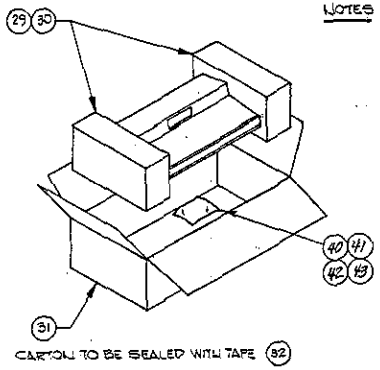


SECT. A-A



SECT. B-B

DETAIL SHOWING FOOT MOUNTING IN BASEPLATE TYP. 4 PLACES



NOTES
1- L.C.D. FRAME EDGE TO BE FLUSH WITH TOP OF WINDOW WITHOUT BEING VISIBLE.
2- ADJUST DISPLAY BY LOOSENING MOUNTING SCREWS (ITEM 33) AND ADJUSTING FILLHD SCREWS (ITEM 35) TO GIVE DESIRED HEIGHT. INSURE DISPLAY IS PUSHED FORWARD BEFORE TIGHTENING MOUNTING SCREWS (ITEM 33).
3- REMOVE CLEAR BACKING PAPER FROM EXPOSED SURFACE OF FILTER. BEFORE MOUNTING.
4- TORQUE ALL FASTENERS PER EMI STD. EXCEPT TORQUE KEYPAD STUDS TO 2-3 in/lbs.
5- SECURE HARNESS (ITEM 11) TO J6 WITH TAPE (ITEM 38).
6- CLIP PIN 6 FROM J7 PRIOR TO ASSY.
7- DO NOT ALLOW ITEM 12 (LOCTITE 242) TO CONTACT PLASTIC HOUSING.

NOTE: FOR OVERALL WIRING DIAGRAM SEE DWG. D7134AA.

QTY.	ITEM	PART NUMBER	DESCRIPTION
1	43	A117IIAA	LABEL
2	42	8612BBA	FASTENER 2×2"
2	41	8612BAA	FASTENER 1/2×1-3/4"
1	40	410068	POLY BAG 4×6"
1	39	410126	ANTI-STATIC BAG (NOT SHOWN)
0	38	310010	TAPE - TEFLON
14	37	285014	WASHER, FLAT #4
8	36		
4	35	284013	SCREW #4-40×5/16
1	34	P1152AA	OPERATOR'S MANUAL
4	33	284074	SCREW #4-40×1/4
24"	32	410012	TAPE 3"
1	31	C7108AA	SHIPPING CARTON
.18	30	160067	FOAM-IN-PLACE COMP "B"
.18	29	160066	FOAM-IN-PLACE COMP "A"
1	28	B9821B	LABEL - SERIAL NUMBER
4	27	284082	SCREW #4-40 1/4"
10	26	281501	HEX NUT #4-40 NPS
8	25	285007	LOCKWASHER #4
4	24	284075	SCREW #4-40×3/8
	23		
6	22	286514	SCREW #6-32×3/8
2	21	A7039AA	NUT-SPECIAL #4-40
8	20	285008	SPACER .047" NYLON
8	19	286059	SCREW #4-32×1/4 SLOT HD W/NYLOK
1	18	B7064A	KEYBOARD DISPLAY ASSY.
4	17	140115	FOOT
2	16	280257	STANDOFF #6-32M-F 1" LG
2	15	280259	STANDOFF #6-32M-F 3/4" LG
2	14	280258	STANDOFF #6-32M-F 1/2" LG
1	13	B7066A	DISPLAY HARNESS ASSY.
0	12	160019	LOCTITE 242
1	11	B7065A	BACKLIGHT HARNESS ASSY.
1	10	B7067A	KEYBOARD HARNESS ASSY.
1	9	BG894AA	SUPPORT BRACKET R.H.
1	8	BG894BA	SUPPORT BRACKET L.H.
1	7	BG925AA	ADAPTER BLOCK R.H.
1	6	BG925BA	ADAPTER BLOCK L.H.
1	5	C7069C	MAIN CABLE ASSY. 6FT.
1	4	DG180B	P.C. BOARD ASSY.
1	3	DG928BA	KEYBOARD
1	2	D6921CA	BASEPLATE
1	1	D7168AA	HOUSING
QTY.	ITEM	PART NUMBER	DESCRIPTION

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

MATERIAL	~
FINISH	~
NEXT ASSY	2116CA
USED ON	
APPLICATION	

DRAWN	B. SHOTWELL 1-22-86
CHECKED	F. Velasco 2.3.86
ENGINEER	R. Wells 7-1-86
APPROVED	D.R. Lumb 4.4.86

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 0
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ± ~
ANGLES ± ~

CORPORATE MEDICAL SYSTEMS, INC.
MARKET INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE 2116AX KEYBOARD ASSEMBLY

SIZE	DRAWING NUMBER	REV
D	7102B	00
SCALE FULL	1/ASSY	SHEET 1 OF 1

CAT. NO.	ENG. REF DWG	REV.	DIM. 'A'	USED ON
2260AAX	D7456E	09	8 FT.	115, 145

BELT LOOPS DO NOT APPEAR ON CAT. NO. 2260BAX

REV	ECN	DESCRIPTION	BY	DATE	CHKD	APVD
*	5922	REVISED & REDRAWN	JC	10/24/87	EF	
*	5978	SEE ECN	JA	10/30/87	EF	
*	6014	NEW 'E' & 'F'	R.C.	1/19/88	ES	
*	6072	NEW "2260 BAX"	JA	2-2-88	ES	
*	6130	SEE ECN	JA	3-9-88	ES	
*	6143	CA" -14 2260AAX & W -20AX ADD NEW	VS	3/23/88	ES	
*	6139	8' O-ALT ITEM 9 WAS D5992EA	JA	4/13/88	ES	

SEE SHEET 3 OF 3

	1	47		284047	SCR, #4-40 x 1/8 P.H. - BLK. OX.	
	1	46		C7730AA	SEALING TAPE	
	3	45		281203	SCREW, #2-56 x 5/16 LG. BHMS	
	2	44		A60348A	SPACER, POST	
	0	43		160034	LOCTITE #414	
	2	42		210182	SCREW M 2.6 X 10	
	1	41		210226	CONTACT, MALE, 18 mm LG.	
	.031'	40		408043	SHRINK TUBING 3/32 DIA.	
	.25'	38		405105	WIRE #24 GRN	
	1	37		210181	CLAMP (3-5 mm)	
	11	36		210227	CONTACT, MALE, 16.5 mm	
	1	35		212135	HOUSING PIN C-F	
	1	34		210178	PLASTIC RING	
	1	33		210176	RING	
	1	32		210180	HALF SHELL W/CLAMP 3-5mm	
	1	31		210179	HALF SHELL W/TONGUE	
	1	30		210183	GRIPPER (3-5 mm)	
	8.417	29		A59278A	CABLE 4 COND. SHIELDED	
	1	28		859938A	BEND RELIEF BUSHING	
	1	27		440011	SLEEVE MARKER	
	1	26		C7598BA	BALL KEEPER	
	1	25		B7443AA	RETAINING RING	
	1	24	NOT SHOWN	B43898A	INSTRUCTION SHEET	
	1	23		883244A	NUT 3/8-32 ALUM.	
	1	22	NOT SHOWN	40112	AIRCAP BAG	
	1	21	NOT SHOWN	A480QA	LABEL TOCO XDCR	
	1	20		C7514AA	ABDOMINAL STRAP-GRAY	
	0	19		160007	YC-1 SOLVENT	
	1	18		281315	NUT, HEX #2-56	
	1	17		C7597CA	BUTTON	
	4	16		286271	SCREW #6-32 x 1/4 LG FLAT HD.	
	4	15		285005	LWASHER #2 INT. TOOTH	
	1	14		C7579CA	WASHER	
	1	13		281238	SCREW, #2-56 x 1/4 ALLEN SET	
	1	12		B7419BA	CLAMP-BEAM	
	0	11		160022	GLYPTAL	
	2	10		A60344A	SPACER POST	
	1	9		D5992EA	NAMEPLATE	
	.50'	8		605402	#34 MAGNET WIRE	
	1	7		C7418AA	STOP, BEAM LIMIT	
	1	6		C7438AA	DIAPHRAGM-SEAL	
	1	5		C7689A	BASE ASSY.	
	1	4		D5873AA	TOP	
	1	3		C7444AA	PLUNGER	
	1	2		C5794C	TOCO BOARD ASS'Y	
	1	1		B2270BA	BEAM	
QTY	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION	

INTERNAL TABS (FROM SHELLS) TO POCKETS (IN GRIPPER)

OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION. KEY TAB OF RING TO TOP OF SHELL

GRIPPER TO ANGLE AWAY FROM TONGUE.

DIM. 'A' (SEE TABLE)

OUTER JACKET FILLER AND SHIELD TRIMMED TO THIS POINT

LOCATE AS SHOWN

TONGUE TO ALIGN WITH PIN 1

SEE NOTE 3

MARK PER DWG B4880 TAB

STRIP & TIN THESE 4 WIRES

SEE NOTE 10 4 PLCS

TOP VIEW WITH COVER FULL SIZE

REV 09

CABLE PREPARATION FULL SIZE

VIEW C-C SCALE: NONE

WIRE COLOR	PIN NO	USED ON
RED	1	+ PRESSURE
WHT	2	- PRESSURE
BLU	4	EXCITATION
YEL	6	EXCITATION REFERENCE
	7	CHASSIS GROUND (SHIELD)
	12	TOCO JUMPER FROM 12 TO 6

RED
WHT
BLU
YEL

WIRING DIAGRAM

KEEP WIRES FROM LAYING ATOP THIS RIB

TIE OVERHAND KNOT AROUND POST APPROX. AS SHOWN AND PULL TIGHT. DRESS KNOT & LEAD WIRES SO AS NOT TO INTERFERE WITH POT ADJUST.

1.5" LONG - 4 PLACES SOLDER AS SHOWN SEE NOTE 1

3 PLACES SEE NOTE 7

SEE NOTE 10

REF.

YELLOW WIRE
RED WIRE
WHITE WIRE
BLUE WIRE

SEE NOTE 2

LOCATE CLAMP (ITEM 12) FLUSH TO BEAM (ITEM 1) EDGE

COMPONENT SIDE SHOWN

SEE NOTE 10

PARTIAL SECTION A-A SCALE: FULL (CAT. NO. 2260BAX)

TOP VIEW SHOWN WITH COVER REMOVED

NOTE: TORQUE THIS SCREW TO 48 OZ. IN.

NOTE: AFTER SECURING SEALING TAPE IN PLACE, PIERCE A SMALL X-H... AT THE APPROX. CENTER OF THE CENTER HOLE TO PERMIT INSERTION OF SCREW (ITEM 47).

DO NOT ALLOW PLUNGER TO TOUCH STOP

NOTE: INSTALL ROUND SIDE OF BEAM CLAMP UP

SEE NOTE 9

REF.

LOCATE BEAM (ITEM 1) SO THAT 'PEM' NUT EXTENSION IS FACING DOWN.

SEE NOTE 4

SEE NOTE 5

SEE NOTE 8

SECT. N A-A

NOTES:

1. SOLDER LEADS FROM STRAIN GAUGE SOLDER TABS AS SHOWN. DOTTED LINES INDICATE TWO LEADS COMING FROM BOTTOM OF BEAM (ITEM 1). LAY EXCESS LEAD MATERIAL SO THAT IT DOES NOT INTERFERE WITH OTHER COMPONENTS OR THE MOUNTING OF THE TOCO TOP.
2. DO NOT PERMIT BEAM CLAMP (ITEM 12) TO REST ON TOP OF ANY PORTION OF THE GAGE PAD, CONTACTS, OR LEAD WIRES (ITEM 8).
3. BRAID CONN. 3/16 +1/16 LONG EXTENDING FROM CABLE JACKET TOWARD CONNECTOR, COVER SOLDER JOINT WITH SHRINK TUBING (ITEM 40) 3/8 LONG.
4. SCREW IN BALL KEEPER (ITEM 26) TO JUST ENGAGE PLUNGER (ITEM 3), THEN BACK OFF 1/4 TURN. SECURE WITH GLYPTAL.
5. SOLVENT BOND (ITEM 9) RETAINING RING (ITEM 25) TO CASE BOTTOM (ITEM 5). DO NOT ALLOW SOLVENT ON ANY OUTSIDE SURFACE.
6. TIGHTEN NUT (ITEM 23) TO 28-30 OZ-IN. TORQUE. GLYPTAL (ITEM 11) IN PLACE.
7. LOOSEN SCREWS ENOUGH TO MOVE BEAM, BUT NOT FLOPPY. WITH PLUNGER THREADED THRU BEAM, ALIGN BUTTON & PLUNGER IN A FIXTURE TO HAVE PLUNGER VERTICAL IN BOTH DIRECTIONS, THEN SECURE BEAM SCREWS (ITEM 45). TORQUE SCREWS TO 40 OZ-IN. SECURE WITH GLYPTAL.
8. ADJUST PLUNGER (ITEM 3) SO THAT THE FACE OF THE BUTTON (ITEM 14) IS FLUSH TO THE RESTING SURFACE OF BASE (ITEM 5). WITHIN ±.010. MAINTAIN THAT ADJUSTMENT AND SECURE NUT (ITEM 18). READJUST IF NECESSARY AFTER TIGHTENING NUT. TORQUE NUT (ITEM 18) TO 30 OZ. IN. GLYPTAL PLUNGER, NUT AND BEAM. ±.005
9. ADJUST SCREW (ITEM 45) FOR .030" CLEARANCE TO TOP OF BEAM. GLYPTAL IN PLACE.
10. TORQUE POSTS TO 60 OZ.-IN. AND COVER SCREWS TO 50 OZ.-IN.
11. ADJUST OFFSET AND GAIN POTS WITH COVER IN PLACE AND SCREWS TORQUED PER NOTE 10. AFTER ADJUSTMENT, GLYPTAL POTS.
12. SEE SPEC. CES-198 FOR CALIBRATION & THERMAL STABILIZATION PROCEDURE.

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS

DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
3 PLACE DECIMALS ±
2 PLACE DECIMALS ±
ANGLES °

SEE TABLE

NEXT ASSY	USED ON
APPLICATION	

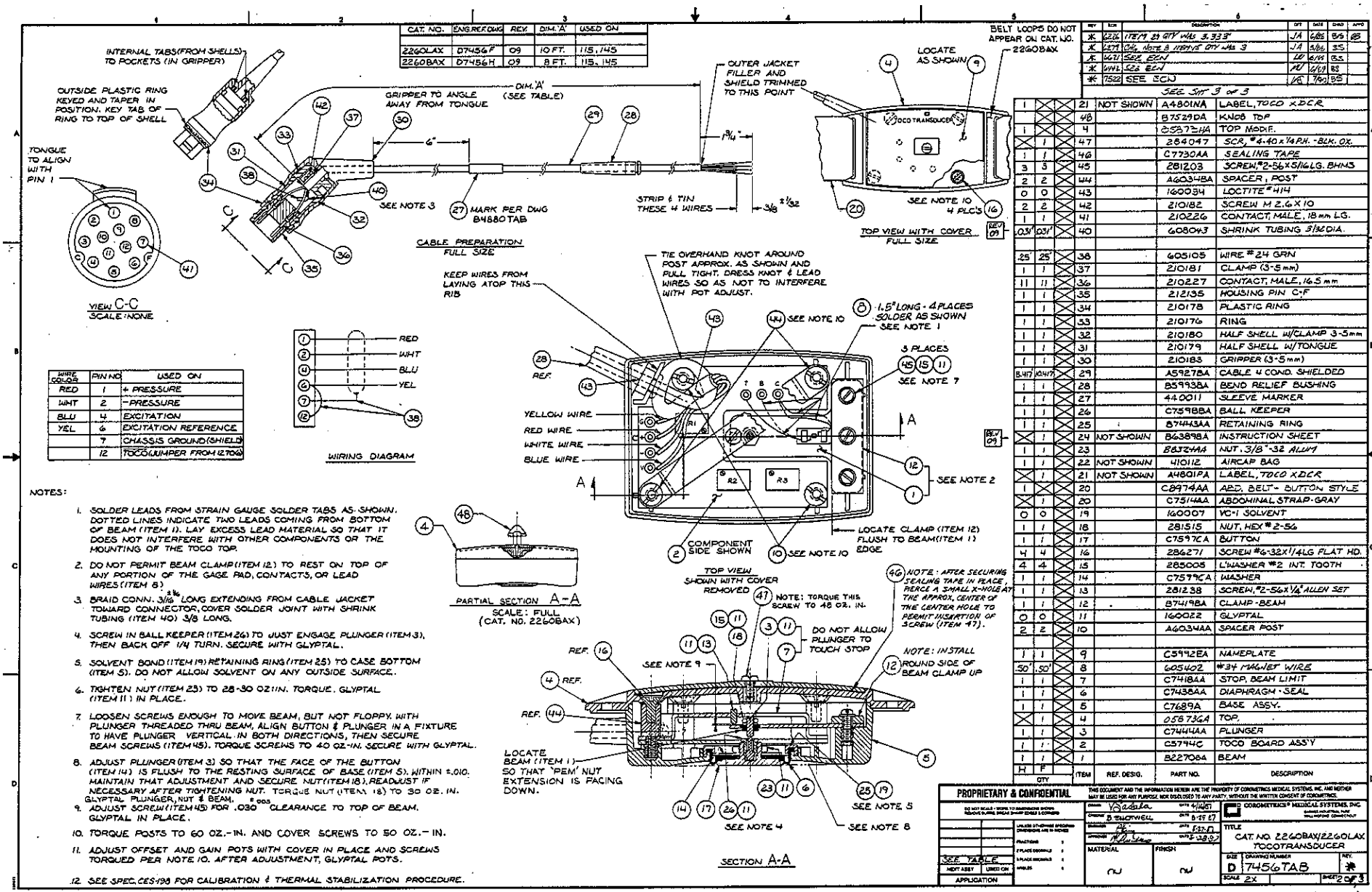
DRAWN Brenda DATE 4-4-87
CHECKED [illegible] DATE [illegible]
ENGINEER [illegible] DATE 4-27-87
APPROVED [illegible] DATE [illegible]

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE
CAT. NO. 2260AAX
TOCOTRANSDUCER

MATERIAL N/A
FINISH N/A

SIZE D
DRAWING NUMBER D7456TAB
REV. *
SCALE 2X
SHEET 1 OF 3


CAT. NO. | ENG.REF.DWG | REV. | DIM.'A' | USED ON
2260LAX | D7456F | 09 | 10 FT. | 115, 145
2260BAX | D7456H | 09 | 8 FT. | 115, 145
INTERNAL TABS(FROM SHELLS) TO POCKETS (IN GRIPPER)
OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION. KEY TAB OF RING TO TOP OF SHELL
TONGUE TO ALIGN WITH PIN 1
GRIPPER TO ANGLE AWAY FROM TONGUE
DIM.'A' (SEE TABLE)
OUTER JACKET FILLER AND SHIELD TRIMMED TO THIS POINT
6"
1 3/4"
SEE NOTE 3
MARK PER DWG B4880TAB
STRIP & TIN THESE 4 WIRES
3/8 +1/32
CABLE PREPARATION FULL SIZE
VIEW C-C SCALE: NONE
BELT LOOPS DO NOT APPEAR ON CAT. NO. 2260BAX
LOCATE AS SHOWN
TOCO TRANSDUCER
SEE NOTE 10 4 PLC'S
TOP VIEW WITH COVER FULL SIZE
WIRE COLOR | PIN NO. | USED ON
RED | 1 | + PRESSURE
WHT | 2 | -PRESSURE
BLU | 4 | EXCITATION
YEL | 6 | EXCITATION REFERENCE
| 7 | CHASSIS GROUND (SHIELD)
| 12 | TOCO JUMPER FROM 12 TO 6
RED
WHT
BLU
YEL
WIRING DIAGRAM
KEEP WIRES FROM LAYING ATOP THIS RIB
TIE OVERHAND KNOT AROUND POST APPROX. AS SHOWN AND PULL TIGHT. DRESS KNOT & LEAD WIRES SO AS NOT TO INTERFERE WITH POT ADJUST.
1.5" LONG - 4 PLACES SOLDER AS SHOWN SEE NOTE 1
3 PLACES
SEE NOTE 7
SEE NOTE 10
YELLOW WIRE
RED WIRE
WHITE WIRE
BLUE WIRE
SEE NOTE 2
COMPONENT SIDE SHOWN
LOCATE CLAMP (ITEM 12) FLUSH TO BEAM (ITEM 1) EDGE
SEE NOTE 10
PARTIAL SECTION A-A SCALE: FULL (CAT. NO. 2260BAX)
TOP VIEW SHOWN WITH COVER REMOVED
NOTE: TORQUE THIS SCREW TO 48 OZ. IN.
NOTE: AFTER SECURING SEALING TAPE IN PLACE, PIERCE A SMALL X-HOLE AT THE APPROX. CENTER OF THE CENTER HOLE TO PERMIT INSERTION OF SCREW (ITEM 47).
DO NOT ALLOW PLUNGER TO TOUCH STOP
NOTE: INSTALL ROUND SIDE OF BEAM CLAMP UP
SEE NOTE 9
LOCATE BEAM (ITEM 1) SO THAT 'PEM' NUT EXTENSION IS FACING DOWN.
SEE NOTE 4
SEE NOTE 5
SEE NOTE 8
SECTION A-A

NOTES:

1. SOLDER LEADS FROM STRAIN GAUGE SOLDER TABS AS SHOWN. DOTTED LINES INDICATE TWO LEADS COMING FROM BOTTOM OF BEAM (ITEM 1). LAY EXCESS LEAD MATERIAL SO THAT IT DOES NOT INTERFERE WITH OTHER COMPONENTS OR THE MOUNTING OF THE TOCO TOP.
2. DO NOT PERMIT BEAM CLAMP (ITEM 12) TO REST ON TOP OF ANY PORTION OF THE GAGE PAD, CONTACTS, OR LEAD WIRES (ITEM 8).
3. BRAID CONN. 3/16 +1/8 LONG EXTENDING FROM CABLE JACKET TOWARD CONNECTOR, COVER SOLDER JOINT WITH SHRINK TUBING (ITEM 40) 3/8 LONG.
4. SCREW IN BALL KEEPER (ITEM 26) TO JUST ENGAGE PLUNGER (ITEM 3), THEN BACK OFF 1/4 TURN. SECURE WITH GLYPTAL.
5. SOLVENT BOND (ITEM 19) RETAINING RING (ITEM 25) TO CASE BOTTOM (ITEM 5). DO NOT ALLOW SOLVENT ON ANY OUTSIDE SURFACE.
6. TIGHTEN NUT (ITEM 23) TO 28-30 OZ-IN. TORQUE. GLYPTAL (ITEM 11) IN PLACE.
7. LOOSEN SCREWS ENOUGH TO MOVE BEAM, BUT NOT FLOPPY. WITH PLUNGER THREADED THRU BEAM, ALIGN BUTTON & PLUNGER IN A FIXTURE TO HAVE PLUNGER VERTICAL IN BOTH DIRECTIONS, THEN SECURE BEAM SCREWS (ITEM 45). TORQUE SCREWS TO 40 OZ-IN. SECURE WITH GLYPTAL.
8. ADJUST PLUNGER (ITEM 3) SO THAT THE FACE OF THE BUTTON (ITEM 14) IS FLUSH TO THE RESTING SURFACE OF BASE (ITEM 5), WITHIN ±.010. MAINTAIN THAT ADJUSTMENT AND SECURE NUT (ITEM 18). READJUST IF NECESSARY AFTER TIGHTENING NUT. TORQUE NUT (ITEM 18) TO 30 OZ. IN. GLYPTAL PLUNGER, NUT & BEAM.
9. ADJUST SCREW (ITEM 45) FOR .030 +.005 CLEARANCE TO TOP OF BEAM. GLYPTAL IN PLACE.
10. TORQUE POSTS TO 60 OZ.-IN. AND COVER SCREWS TO 50 OZ.-IN.
11. ADJUST OFFSET AND GAIN POTS WITH COVER IN PLACE AND SCREWS TORQUED PER NOTE 10. AFTER ADJUSTMENT, GLYPTAL POTS.
12. SEE SPEC. CES-198 FOR CALIBRATION & THERMAL STABILIZATION PROCEDURE.

REV	ECN	DESCRIPTION	QTY	DATE	DWD	APVD
*	6226	ITEM 29 QTY WAS 3.333"		JA	6/85	BS
*	6279	CHG NOTE 8 ITEM 18 QTY WAS 3		JA	8/86	BS
*	6421	SEE ECN		LD	6/19	BS
*	6442	SEE ECN		MD	6/19	BS
*	7522	SEE ECN		LR	7/90	BS

SEE SHT 3 OF 3

			ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1			21	NOT SHOWN	A4801NA	LABEL, TOCO XDCR
			48		B7529DA	KNOB TOP
1			4		058732HA	TOP MODIF.
	1	1	47		284047	SCR, #4-40 x 1/4 P.H. - BLK. OX.
1	1		46		C7730AA	SEALING TAPE
3	3		45		281203	SCREW, #2-56 x 5/16 LG. BHMS
2	2		44		A6034BA	SPACER, POST
0	0		43		160034	LOCTITE #414
2	2		42		210182	SCREW M 2.6 X 10
1	1		41		210226	CONTACT, MALE, 18 mm LG.
.031"	.031"		40		608043	SHRINK TUBING 3/32 DIA.
.25	.25"		38		605105	WIRE #24 GRN
1	1		37		210181	CLAMP (3-5 mm)
11	11		36		210227	CONTACT, MALE, 16.5 mm
1	1		35		212135	HOUSING PIN C-F
1	1		34		210178	PLASTIC RING
1	1		33		210176	RING
1	1		32		210180	HALF SHELL W/CLAMP 3-5 mm
1	1		31		210179	HALF SHELL W/TONGUE
1	1		30		210183	GRIPPER (3-5 mm)
8.417	10417		29		A5927BA	CABLE 4 COND. SHIELDED
1	1		28		B59938A	BEND RELIEF BUSHING
1	1		27		440011	SLEEVE MARKER
1	1		26		C7598BA	BALL KEEPER
1	1		25		B7441AA	RETAINING RING
	1		24	NOT SHOWN	B6389BA	INSTRUCTION SHEET
1	1		23		B8324AA	NUT, 3/8"-32 ALUM
1	1		22	NOT SHOWN	410112	AIRCAP BAG
	1		21	NOT SHOWN	A4801PA	LABEL, TOCO XDCR
1			20		C8974AA	ABD. BELT - BUTTON STYLE
	1		20		C7514AA	ABDOMINAL STRAP-GRAY
0	0		19		160007	VC-1 SOLVENT
1	1		18		281515	NUT, HEX #2-56
1	1		17		C7597CA	BUTTON
4	4		16		284271	SCREW #4-32 X 1/4 LG FLAT HD.
4	4		15		285005	LWASHER #2 INT. TOOTH
1	1		14		C7579CA	WASHER
1	1		13		281238	SCREW, #2-56 x 1/8 ALLEN SET
1	1		12		B7419BA	CLAMP-BEAM
0	0		11		160022	GLYPTAL
2	2		10		A6034AA	SPACER POST
1	1		9		C5992EA	NAMEPLATE
.50"	.50"		8		605402	#34 MAGNET WIRE
1	1		7		C7418AA	STOP, BEAM LIMIT
1	1		6		C7438AA	DIAPHRAGM - SEAL
1	1		5		C7689A	BASE ASSY.
	1		4		058736A	TOP.
1	1		3		C7441AA	PLUNGER
1	1		2		C5794C	TOCO BOARD ASS'Y
1	1		1		B227086A	BEAM
H	F		QTY			

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DRAWN Y. Sabia 4/14/87
ENGINEER B. SNOWELL 6-19-87
APPROVED 6-22-87
APPROVED 6-28-87

COROMETRICS® MEDICAL SYSTEMS, INC. GUILFORD INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

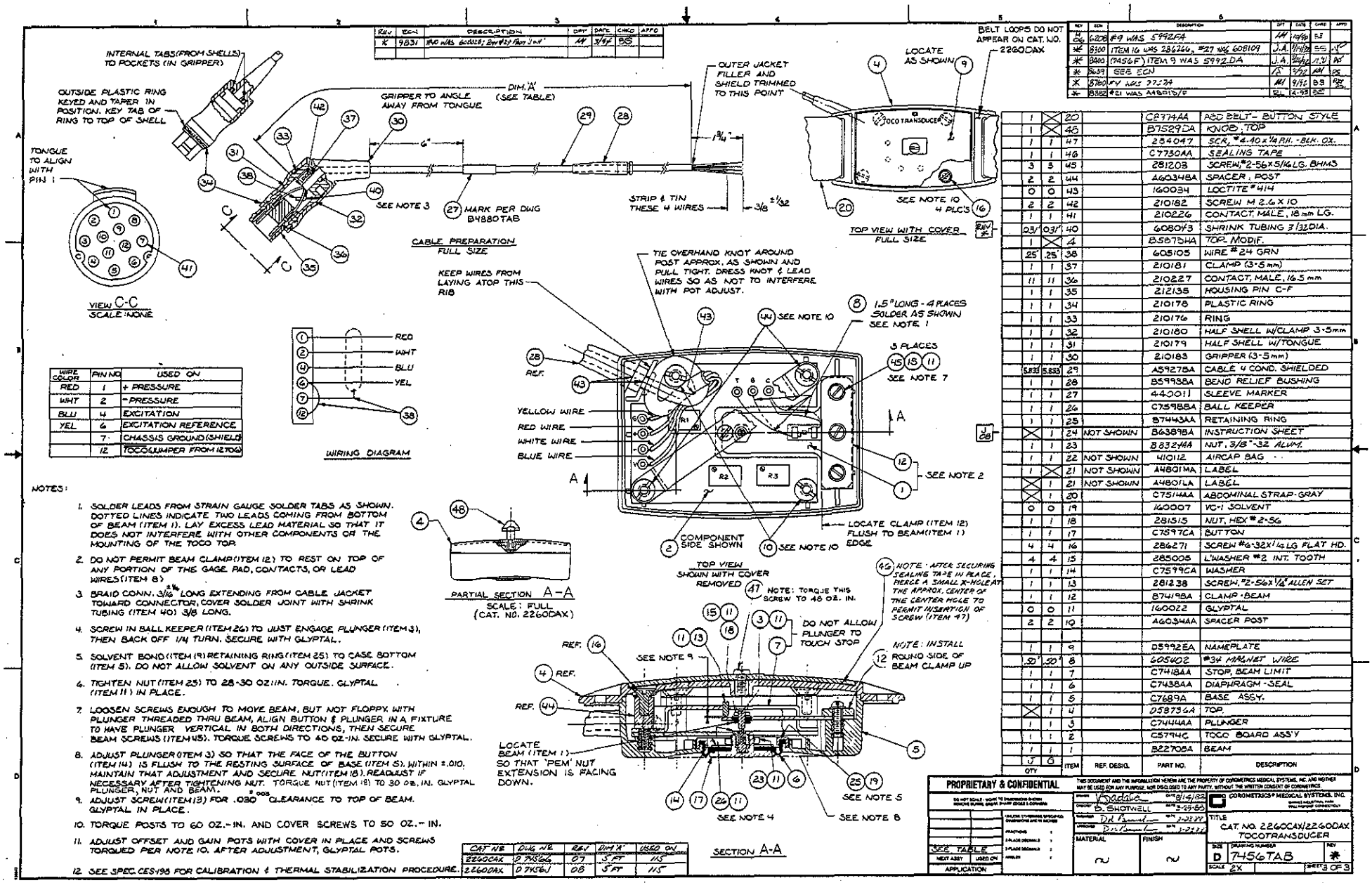
TITLE: CAT. NO. 2260BAX/2260LAX TOCOTRANSDUCER

MATERIAL: NU | FINISH: NU

SIZE D | DRAWING NUMBER 7456TAB | REV. *

SCALE 2X | SHEET 2 OF 3

SEE TABLE — NEXT ASSY | USED ON — APPLICATION


INTERNAL TABS (FROM SHELLS) TO POCKETS (IN GRIPPER)
OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION. KEY TAB OF RING TO TOP OF SHELL
TONGUE TO ALIGN WITH PIN 1
GRIPPER TO ANGLE AWAY FROM TONGUE
DIM. 'A' (SEE TABLE)
OUTER JACKET FILLER AND SHIELD TRIMMED TO THIS POINT
LOCATE AS SHOWN
BELT LOOPS DO NOT APPEAR ON CAT. NO. 2260DAX
SEE NOTE 3
MARK PER DWG B4880TAB
STRIP & TIN THESE 4 WIRES
SEE NOTE 10 4 PLC'S
TOP VIEW WITH COVER FULL SIZE
VIEW C-C SCALE: NONE
CABLE PREPARATION FULL SIZE
KEEP WIRES FROM LAYING ATOP THIS RIB
TIE OVERHAND KNOT AROUND POST APPROX. AS SHOWN AND PULL TIGHT. DRESS KNOT & LEAD WIRES SO AS NOT TO INTERFERE WITH POT ADJUST.
1.5" LONG - 4 PLACES SOLDER AS SHOWN SEE NOTE 1
5 PLACES
SEE NOTE 7
SEE NOTE 10
SEE NOTE 2
YELLOW WIRE
RED WIRE
WHITE WIRE
BLUE WIRE
COMPONENT SIDE SHOWN
LOCATE CLAMP (ITEM 12) FLUSH TO BEAM (ITEM 1) EDGE
WIRING DIAGRAM
PARTIAL SECTION A-A SCALE: FULL (CAT. NO. 2260DAX)
TOP VIEW SHOWN WITH COVER REMOVED
NOTE: TORQUE THIS SCREW TO 40 OZ. IN.
NOTE: AFTER SECURING SEALING TAPE IN PLACE, PIERCE A SMALL X-HOLE AT THE APPROX. CENTER OF THE CENTER HOLE TO PERMIT INSERTION OF SCREW (ITEM 47)
DO NOT ALLOW PLUNGER TO TOUCH STOP
NOTE: INSTALL ROUND SIDE OF BEAM CLAMP UP
LOCATE BEAM (ITEM 1) SO THAT 'PEM' NUT EXTENSION IS FACING DOWN.
SEE NOTE 4
SEE NOTE 5
SEE NOTE 8
SECTION A-A

WIRE COLOR	PIN NO	USED ON
RED	1	+ PRESSURE
WHT	2	- PRESSURE
BLU	4	EXCITATION
YEL	6	EXCITATION REFERENCE
	7	CHASSIS GROUND (SHIELD)
	12	TOCO JUMPER FROM 12 TO 6

NOTES:

1. SOLDER LEADS FROM STRAIN GAUGE SOLDER TABS AS SHOWN. DOTTED LINES INDICATE TWO LEADS COMING FROM BOTTOM OF BEAM (ITEM 1). LAY EXCESS LEAD MATERIAL SO THAT IT DOES NOT INTERFERE WITH OTHER COMPONENTS OR THE MOUNTING OF THE TOCO TOP.
2. DO NOT PERMIT BEAM CLAMP (ITEM 12) TO REST ON TOP OF ANY PORTION OF THE GAGE PAD, CONTACTS, OR LEAD WIRES (ITEM 8).
3. BRAID CONN. 3/16" LONG EXTENDING FROM CABLE JACKET TOWARD CONNECTOR, COVER SOLDER JOINT WITH SHRINK TUBING (ITEM 40) 3/8 LONG.
4. SCREW IN BALL KEEPER (ITEM 26) TO JUST ENGAGE PLUNGER (ITEM 3), THEN BACK OFF 1/4 TURN. SECURE WITH GLYPTAL.
5. SOLVENT BOND (ITEM 9) RETAINING RING (ITEM 25) TO CASE BOTTOM (ITEM 5). DO NOT ALLOW SOLVENT ON ANY OUTSIDE SURFACE.
6. TIGHTEN NUT (ITEM 23) TO 28-30 OZ-IN. TORQUE. GLYPTAL (ITEM 11) IN PLACE.
7. LOOSEN SCREWS ENOUGH TO MOVE BEAM, BUT NOT FLOPPY. WITH PLUNGER THREADED THRU BEAM, ALIGN BUTTON & PLUNGER IN A FIXTURE TO HAVE PLUNGER VERTICAL IN BOTH DIRECTIONS, THEN SECURE BEAM SCREWS (ITEM 45). TORQUE SCREWS TO 40 OZ-IN. SECURE WITH GLYPTAL.
8. ADJUST PLUNGER (ITEM 3) SO THAT THE FACE OF THE BUTTON (ITEM 14) IS FLUSH TO THE RESTING SURFACE OF BASE (ITEM 5), WITHIN ±.010. MAINTAIN THAT ADJUSTMENT AND SECURE NUT (ITEM 18). READJUST IF NECESSARY AFTER TIGHTENING NUT. TORQUE NUT (ITEM 18) TO 30 OZ. IN. GLYPTAL PLUNGER, NUT AND BEAM.
9. ADJUST SCREW (ITEM 13) FOR .030 +.005 CLEARANCE TO TOP OF BEAM. GLYPTAL IN PLACE.
10. TORQUE POSTS TO 60 OZ.-IN. AND COVER SCREWS TO 50 OZ.-IN.
11. ADJUST OFFSET AND GAIN POTS WITH COVER IN PLACE AND SCREWS TORQUED PER NOTE 10. AFTER ADJUSTMENT, GLYPTAL POTS.
12. SEE SPEC. CES198 FOR CALIBRATION & THERMAL STABILIZATION PROCEDURE.

CAT NO	DWG NO	REV	DIM 'A'	USED ON
2260DAX	D7456J	07	5 FT	115
2260DAX	D7456J	08	5 FT	115

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
K	9831	#40 WAS 600218; 2nd #27 from 1.44"	MM	3/6/87	BS	

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
H	6208	#9 WAS 5992EA	MM	10/86	BS	
J	8300	ITEM 16 WAS 286266, #27 WAS 608109	J.A.	11/4/86	BS	
K	8400	(7456F) ITEM 9 WAS 5992DA	J.A.	2/24/87	AV	
K	8639	SEE ECN	JS	5/5/87	MM	
K	8760	#9 WAS 7274	MM	9/87	BS	
K	8862	#21 WAS A4801B/B	PL	4-93	BS	

QTY		ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1		20		C8974AA	ADD BELT - BUTTON STYLE
1		48		B7529DA	KNOB, TOP
1	1	47		254047	SCR, #4-40 x 1/8 P.H. - BLK. OX.
1	1	46		C7730AA	SEALING TAPE
3	3	45		281208	SCREW, #2-56 x 5/16 LG. BHMS
2	2	44		A6034BA	SPACER, POST
0	0	43		160034	LOCTITE #414
2	2	42		210182	SCREW M 2.6 X 10
1	1	41		210226	CONTACT, MALE, 1.8 mm LG.
.03"	.03"	40		608013	SHRINK TUBING 3/32 DIA.
1		4		B5875HA	TOP, MODIF.
.25"	.25"	38		605105	WIRE #24 GRN
1	1	37		210181	CLAMP (3.5 mm)
11	11	36		210227	CONTACT, MALE, 1.65 mm
1	1	35		212135	HOUSING PIN C-F
1	1	34		210178	PLASTIC RING
1	1	33		210176	RING
1	1	32		210180	HALF SHELL W/CLAMP 3.5mm
1	1	31		210179	HALF SHELL W/TONGUE
1	1	30		210183	GRIPPER (3.5 mm)
5.835	5.835	29		A5927BA	CABLE 4 COND. SHIELDED
1	1	28		B5995BA	BEND RELIEF BUSHING
1	1	27		440011	SLEEVE, MARKER
1	1	26		C7598BA	BALL KEEPER
1	1	25		B7443AA	RETAINING RING
	1	24	NOT SHOWN	B6389BA	INSTRUCTION SHEET
1	1	23		B8324AA	NUT, 3/8"-32 ALUM.
1	1	22	NOT SHOWN	410112	AIRCAP BAG
1		21	NOT SHOWN	A4801MA	LABEL
	1	21	NOT SHOWN	A4801LA	LABEL
	1	20		C7514AA	ABDOMINAL STRAP - GRAY
0	0	19		160007	VC-1 SOLVENT
1	1	18		281515	NUT, HEX #2-56
1	1	17		C7597CA	BUTTON
4	4	16		286271	SCREW #6-32 X 1/4 LG FLAT HD.
4	4	15		285005	L'WASHER #2 INT. TOOTH
1	1	14		C7599CA	WASHER
1	1	13		281238	SCREW, #2-56 x 1/4 ALLEN SET
1	1	12		B7419BA	CLAMP - BEAM
0	0	11		160022	GLYPTAL
2	2	10		A6034AA	SPACER POST
1	1	9		D5992EA	NAMEPLATE
.50"	.50"	8		605402	#34 MAGNET WIRE
1	1	7		C7418AA	STOP, BEAM LIMIT
1	1	6		C7438AA	DIAPHRAGM - SEAL
1	1	5		C7689A	BASE ASSY.
	1	4		D5873GA	TOP
1	1	3		C7444AA	PLUNGER
1	1	2		C5794C	TOCO BOARD ASS'Y
1	1	1		B2270BA	BEAM
J	G				

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE. WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES °

SEE TABLE
NEXT ASSY | USED ON
APPLICATION

DRAWN: Sandra 8/14/86
CHECKED: B. SHOTWELL 2-19-87
ENGINEER: D.R. Bunnell 2-20-87
APPROVED: D.R. Bunnell 2-24-87

COROMETRICS MEDICAL SYSTEMS, INC. WALLINGFORD, CONNECTICUT

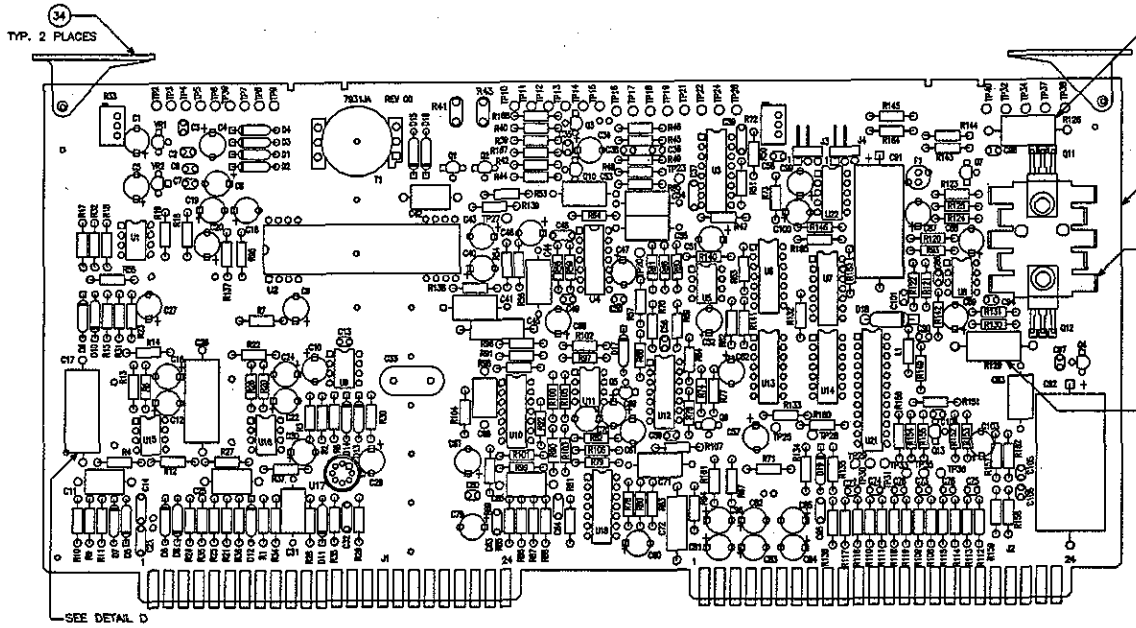
MATERIAL: NA
FINISH: NA

TITLE: CAT. NO. 2260CAN/2260DAX TOCOTRANSDUCER

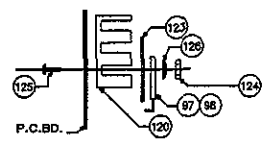
SIZE: D | DRAWING NUMBER: 7456TAB | REV: *

SCALE: 2X | SHEET 3 OF 3

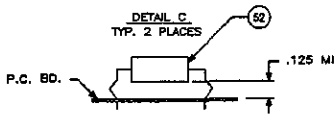
REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
*	9734	ITEM 122 WAS 7931HA	JC	3/94	BS	



DETAIL "A"
TYP. 2 PLACES

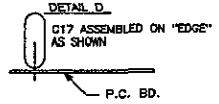


DETAIL C
TYP. 2 PLACES

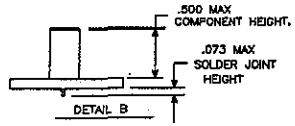


RAISE R126 AND R129 OFF BOARD AS SHOWN

DETAIL D



NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERTS COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATIS DRAWINGS SEE 7931EC, 7931FC.
4—STORE IN ANTISTATIC BAG. P/N 410080 — NOT SHOWN.
5—FOR PARTS LIST SEE P/L 7931E,7931F.
6—RAISE R126 AND R129 OFF BOARD. SEE DETAIL C.



KEY	REMOVE PINS
J3	3
J4	3

PART NO.	REV.	DESCRIPTION
7931F	04	MULTIFUNCTION BD.— DOM./JAP.
7931E	04	MULTIFUNCTION BD.— FOREIGN

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°

E8439TAB	116
E8297TAB	116
NEXT ASSY	USED ON

APPLICATION

DRAWN	JOHN CUSANO	DATE 3-21-91
CHECKED	D. SHOTWELL	DATE 4-3-91
ENGINEER	D. Hurlbut	DATE 4/3/91
APPROVED	R. O'Connell	DATE 4/3/91

MATERIAL ~ FINISH ~

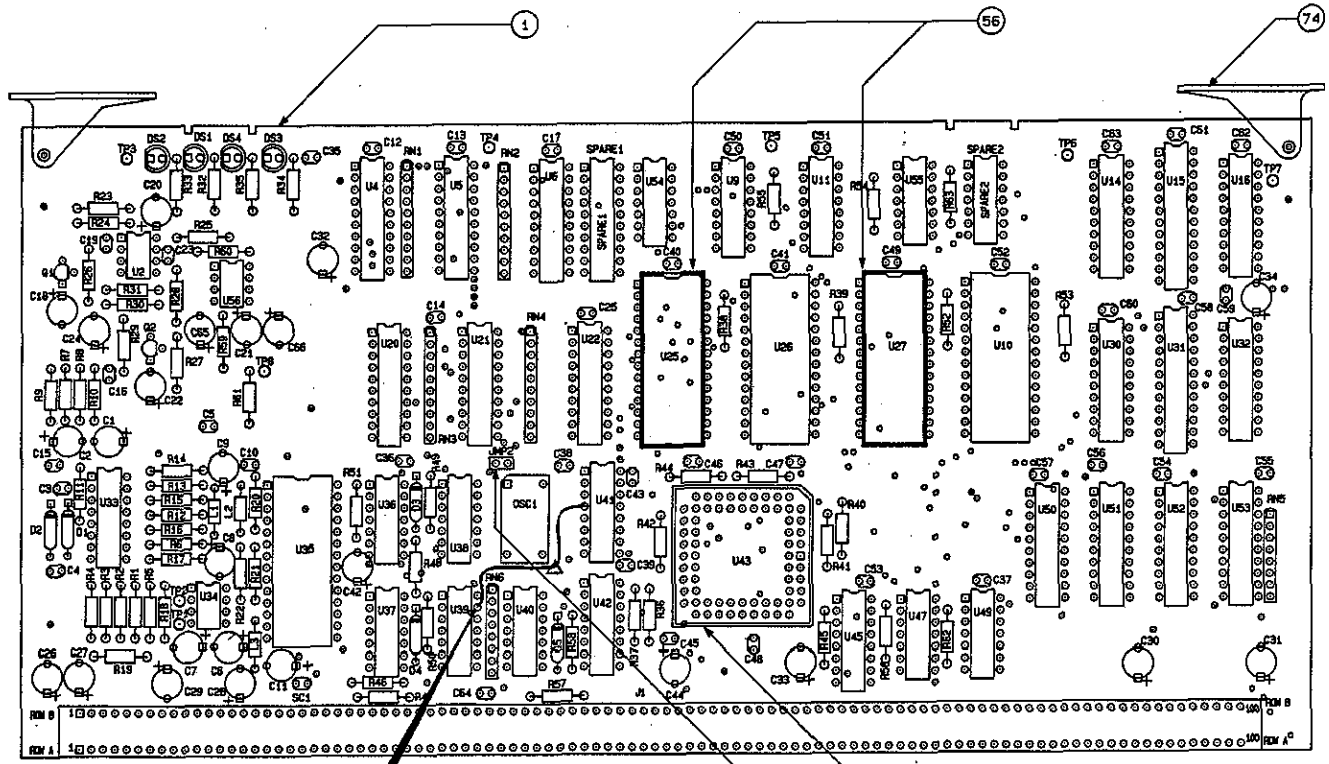
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE MODEL 116
MULTIFUNCTION BOARD
COMPONENT ASS'Y

SIZE C | DRAWING NUMBER 7931TAB | REV. *

SCALE 1.25 | SHEET 1 OF 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
09	7371	ADDED PULL-UPS	RL	7-3-90		
10	8738	CHANGED ITEM # 55	CV	9-11-92		
11	9203	SEE ECN	RL	5-93	BS	



NOTES:
1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 7937BC.
4-STORE IN ANTISTATIC BAG - P/N 410080 - NOT SHOWN.
5-FOR PARTS LIST SEE P/L 79378.

REWORK PER ECN 7371 11/12/90
PULL PU FROM BAD AT U39-13, U5-11
ITEM 95 JUMPER FROM U39-13 TO U41-1.
ADD LOCTITE AT △ W/TAILWIRE

REWORK DWG

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF CORDMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CORDMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ± .XX
3 PLACE DECIMALS ± .XXX
ANGLES ±

68439TAB	116
68297TAB	116
NEXT ASSY	USED ON
APPLICATION	

DRAWN	R. LIBBY	DATE 7-3-90
CHECKED		DATE 10/31/90
ENGINEER		DATE 12/31/90
APPROVED	R.O Connell	DATE 1/2/91

MATERIAL: X
FINISH: X

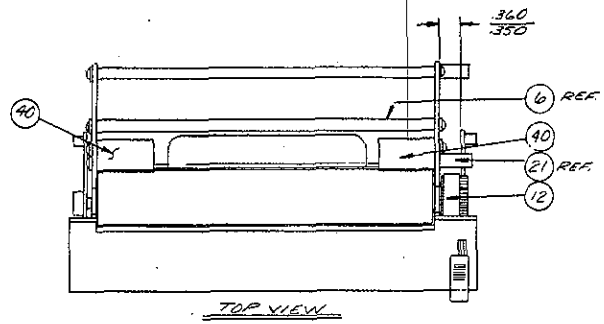
CORDMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE
COMPONENT ASSEMBLY
116 DSP BOARD

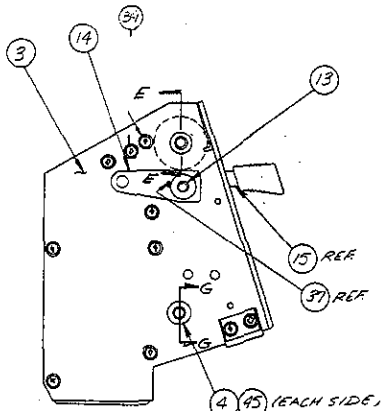
SIZE	DRAWING NUMBER	REV
C	7937B	11

SCALE 1.5:1 SHEET 1 OF 1

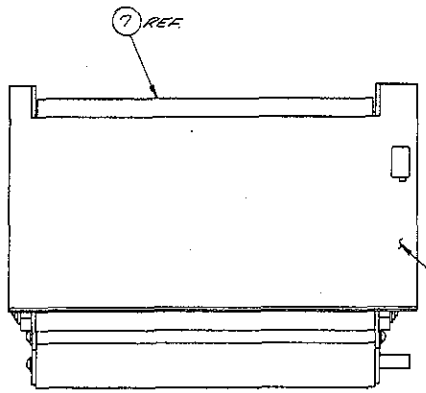
REV	ECN	DESCRIPTION	BY	DATE	CHKD	APPD
C0	8263	I.E.C. RELEASE	KS	9/92	BS	JM



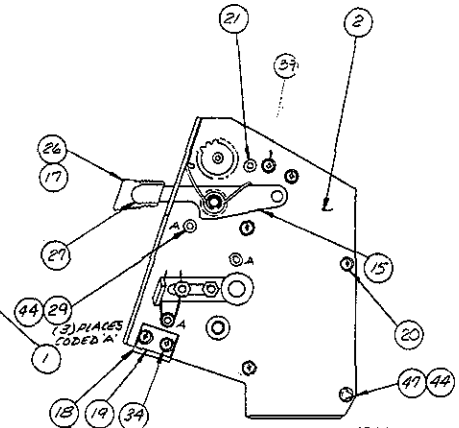
TOP VIEW



EXIT SIDE VIEW



FRONT VIEW

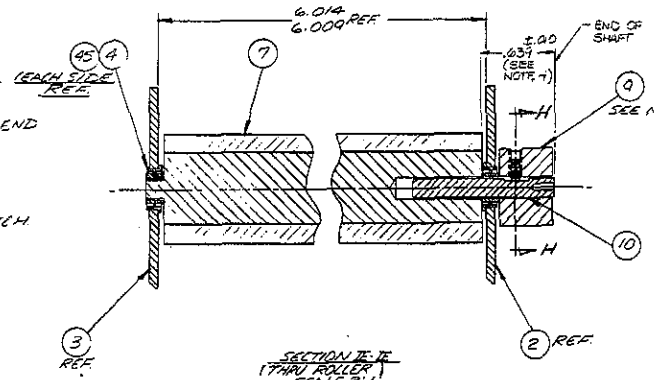


NOTE ORIENTATION

RIGHT SIDE VIEW

NOTES:

1. BUSHING HOLE SIZE TO BE .187B $^{+.006}_{-.000}$ DIA. AFTER PRESSING IN.
2. PAPER GUIDES & DOOR FRONT TO BE FLUSH AT BOTTOM WITHIN .015
3. TO SET ROLLER END PLAY PUSH ROLLER TO RIGHT & PULLEY TO LEFT WITH FEELER GAUGE BETWEEN BEARING & PULLEY TO GIVE .010 MAX END PLAY. ROLLER MUST ROTATE FREELY.
4. PRESS IN SHAFT TO DIMENSION SHOWN.
5. SET SCREWS TO BE LOCATED ON SHAFT FLATS WHERE POSSIBLE & TO BE KNURLED CUP POINTS ON FLATS.
6. TIGHTEN SET SCREW TO 9.5 IN. LBS WITH NO SPRING LOAD ON LATCH.
7. PROTECT OUTSIDE PAINT FROM SCRATCHES.
8. CURE ITEM 45 RETAINING COMPOUND FOR 1 HR. MINIMUM @ 120°-140°F.



SECTION E-E (THRU ROLLER) SCALE 2:1

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
3	29		280308	STANDOFF #2-.40X 5/16L
1	48		BB713A	GROUND CABLE ASS'Y
1	47		280281	STANDOFF #4-.40X 7/16L M-F
0	45		160078	LOCTITE-609
0	44		160019	LOCTITE-242
3	43		280168	E-RING
1	42		280201	STANDOFF #4-.40X 1/8L
1	41		280207	TORSION SPRING
2	40		B7898CA	BACKER BAR, MOLDED
3	39		281249	SCR #2-.56X 1/4LG PH PHL LL STRI
6	38		285014	FLAT WSHR #4
2	37		286029	SKT SET SCR #6-32X 1/4 CUP PT
1	36		286041	SKT SET SCR #6-32X 3/16 DOG PT
1	35		286016	SKT SET SCR #6-32X 3/8 CUP PT
4	34		284075	PH SCREW PHILIPS #4-.40X 3/8
1	31		285074	LK WSHR INT. TOOTH #4
6	30		281561	NUT HEX #4-40
1	28		B5335BA	SPRING-LATCH
1	27		A5782AA	KNOB INSERT
1	26		B5785AA	KNOB
2	25		A5949AA	SPACER
1	24		B7879AA	STUB SHAFT
1	23		B7879AA	IDLER PULLEY
1	22		B7914AA	TENSION ARM
1	21		280339	STANDOFF 3/16 DIA M-F
2	20		284072	SCR #4-.40X 5/16 LG PH PHL LST
2	19		B7938AA	BACKER PLATE DOOR STOP
2	18		B7854AA	DOOR STOP
0	17		160015	SOLVENT, VC2
1	16		285011	FLATWASHER #10
1	15		B7915A	LATCH CASTING R.H.
1	14		B7916A	LATCH CASTING L.H.
1	13		B7923AA	LATCH SHAFT
1	12		250097	TIMING BELT 70T X 3mm
	11			
1	10		B10581AA	ROLLER SHAFT R.H.
1	9		B7897AA	PULLEY-ROLLER
	8			
1	7		C9151AA	ROLLER-VULCANIZED
1	6		D7945BA	DOOR POCKET FINISH
2	5		B6075BA	BUSHING-BRONZE 3/16 BORE
4	4		250096	BEARING-BALL 3/16 BORE
1	3		D7928FA	PAPER GUIDE-LEFT
1	2		D7928GA	PAPER GUIDE-RIGHT
1	1		C9947AA	DOORFACE

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DRAWN 4-4-11 · ENGINEER 4-4-11 · CHECKED 4-4-11 · APPROVED 4-11-11

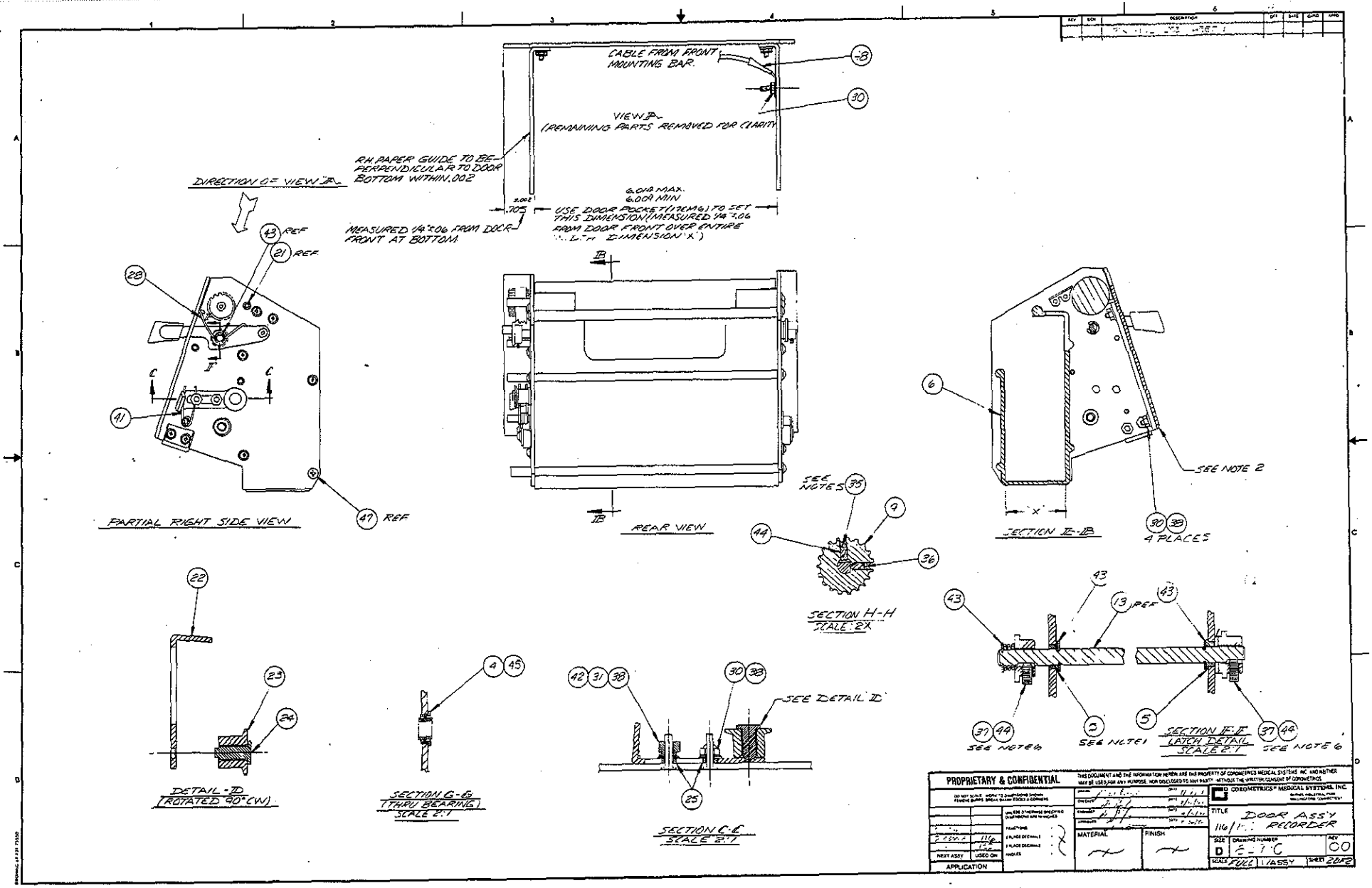
COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: DOOR ASSY 116 SEC RECORDER

MATERIAL: — · FINISH: —

SIZE D · DRAWING NUMBER 22-7-10 · REV. 00 · SCALE FULL · QTY: 1/ASSY · SHEET 1 OF 2

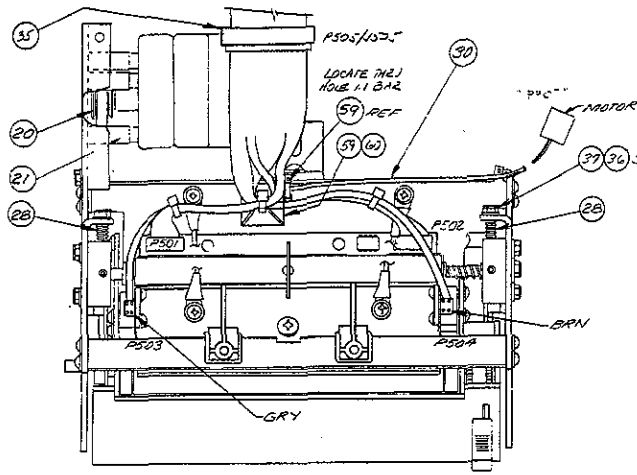
NEXT ASSY: — · USED ON: — · APPLICATION

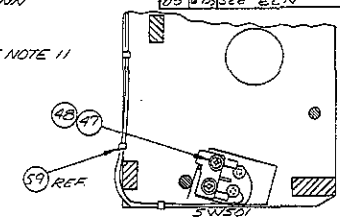

CABLE FROM FRONT MOUNTING BAR.
VIEW JB
(REMAINING PARTS REMOVED FOR CLARITY)
R.H. PAPER GUIDE TO BE PERPENDICULAR TO DOOR BOTTOM WITHIN .002
MEASURED 1/4" ±.06 FROM DOOR FRONT AT BOTTOM.
USE DOOR POCKET (ITEM 6) TO SET THIS DIMENSION (MEASURED 1/4" ±.06 FROM DOOR FRONT OVER ENTIRE LENGTH OF DIMENSION 'X')
DIRECTION OF VIEW JA
PARTIAL RIGHT SIDE VIEW
REAR VIEW
SECTION JE-JE
SEE NOTE 2
4 PLACES
SECTION H-H
SCALE 2X
DETAIL JD
(ROTATED 90° CW)
SECTION G-G
(THRU BEARING)
SCALE 2:1
SECTION C-C
SCALE 2:1
SEE DETAIL JD
SECTION F-F
LATCH DETAIL
SCALE 2:1
SEE NOTE 1
SEE NOTE 6
PROPRIETARY & CONFIDENTIAL
CORometrics® MEDICAL SYSTEMS, INC.
TITLE DOOR ASSY RECORDER
116/1
SIZE D
DRAWING NUMBER E-7C
REV 00
SCALE FULL
SHEET 2 OF 2

NOTES:

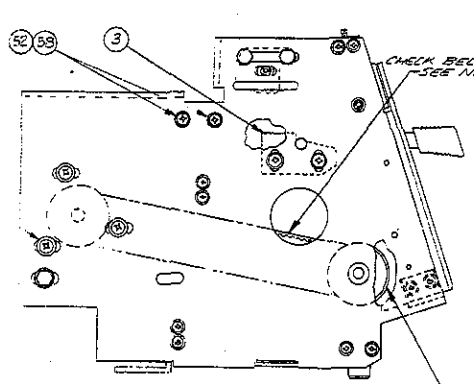
1.
2. SET SCREWS TO BE LOCATED ON SHAFT FLATS WHERE POSSIBLE & TO BE KNURLED CUP POINTS ON FLATS.
3. RECORDER SIDEPLATES TO BE ASSEMBLED PERPENDICULAR TO JACKSHAFT AND LOCATED WITH SHAFT THROUGH FIXTURE HOLE AT ROLLER LOCATION.
4. CURE ITEM 55 RETAINING COMPOUND FOR 1 HR. MINIMUM @ 120°-140°F.
5. SPRING PLATE: (SET UP WITHOUT PRINTHEAD ASSEMBLY) DOOR MUST BE CLOSED. BOTTOM OF PLATE MUST BE SET FLUSH WITH BOTTOM OF DOOR POCKET EXTRUSION (GUIDE BAR). MAINTAINING A SPACE OF .090±.005 (AS SHOWN).
6. PAPER TENSION SPRING: WITH DOOR OPEN, ADJUST PAPER TENSION SPRING WITH BEND AT SAME HEIGHT AS BOTTOM OF SPRING PLATE TO A DISTANCE OF .280±.025 (AS SHOWN).
7. END PLAY ON DOOR: PUSH DOOR AND PULLEY TO RIGHT AND "E" RING END OF JACKSHAFT LEFT TO GIVE .010 MAX. END PLAY. JACKSHAFT MUST ROTATE FREELY.
8. MICROSWITCH: WITH DOOR CLOSED, ADJUST MICROSWITCH AGAINST DOOR STANDOFF UNTIL MICROSWITCH CLOSES. ENSURE STANDOFF DOES NOT TOUCH SWITCH BODY.
9. ADJUST TIMING BELT TENSION BY APPLYING LOAD OF 3-4# AT MOTOR MOUNTING STANDOFFS IN OPPOSITE DIRECTION TO JACKSHAFT. WITHOUT MOTOR CONNECTED.
10. INSPECT BELT TENSION AT POINT SHOWN. TO BE 100±25oz @ .100" DEFLECTION.
11. ADJUST PRINT HEAD TO PRINT VERTICAL LINES OF UNIFORM DENSITY AT 85% OF RATED VOLTAGE.
12. ADJUST PRINTHEAD LATERALLY AND PRINT JOT#912 TO GIVE HORIZONTAL LINE WITH DIMENSION "X" OF .4835.010 FROM RIGHT PAPER GUIDE.
13. RECORDER MUST MEET TEST SPEC #CES201.
14. PROTECT RECORDER FROM SCRATCHES.
15. GAP MEASURED AT LEFT SIDE OF PRINTHEAD MUST BE WITHIN .003 OF GAP MEASURED AT RIGHT SIDE.
16. FINAL ASSEMBLY MUST INCLUDE INSERTION OF 1 SHEET OF THERMAL CHART PAPER BETWEEN THERMAL HEAD AND DRIVE ROLLER.
17. FOUR SPRINGS TO BE INSTALLED SYMMETRICALLY ON PRINTHEAD. OUTSIDE HOLES CAN BE USED IN ORDER TO IMPROVE PRINT QUALITY.

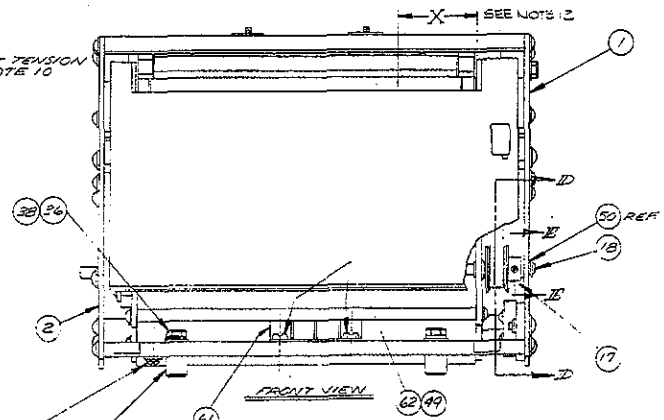
REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
X1				7/05		
00	6457	NEW	FA	9/05		
01	6501		NM	3/06		
02	6530	SEE ECN	JA	3/89		
03	6613	SEE ECN	JA	5/89		
04	6680	SEE ECN	JA	6/89		
05	6713	SEE ECN	MM	7/89		
06	[illegible]		VS	7/89		
07	ECN 6786		JA	8/89		
08	ECN 6879		VS	10/89		
09	ECN 6912		MM	12/89		
10	ECN 7000		MM	12/89		
11	ECN 6690		MM	12/89		
12	ECN 7303		MM	4/13		
13	ECN 7417		MM	7/90	BS	
14	ECN 7486		MM	9/90	BS	
15	ECN 7549		MM	9/91	BS	
16	ECN 7763		MM	9/91	BS	
17	ECN 8281		R.B.	5/91	BS	
00	ECN 8285		R.B.	1/92	BS	
01	ECN 8295		R.B.	4/92	BS	
02	ECN 8634		JC	7/92	BS	
03	ECN 8246		J.A.	9/11/92	BS	
04	ECN 8262		J.A.	8/12	BS	
05	ECN 8929		M.F.	12/92	BS	
06	ECN 9371		MM	6/93	BS	BS
07	[illegible]		MM	9/93	BS	BS

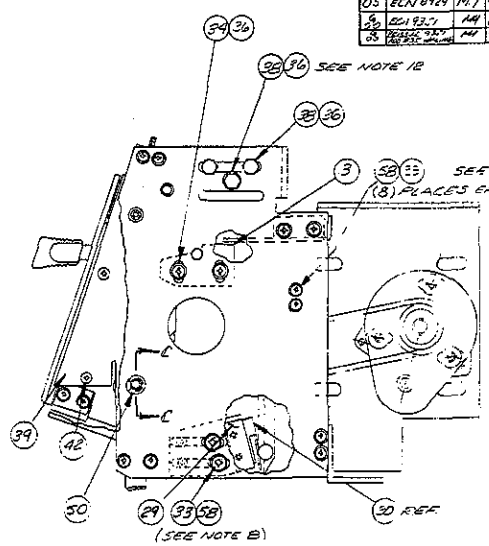


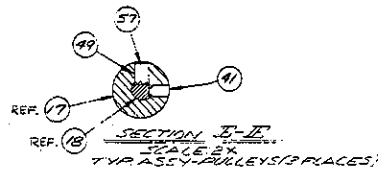


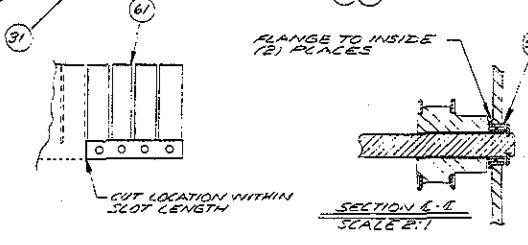
PARTIAL SECTION D-D
SCALE: FULL











PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
X PLACE DECIMALS ±
X PLACE DECIMALS ±
ANGLES ±

1328281A | 11
NEXT ASSY | USED ON
APPLICATION

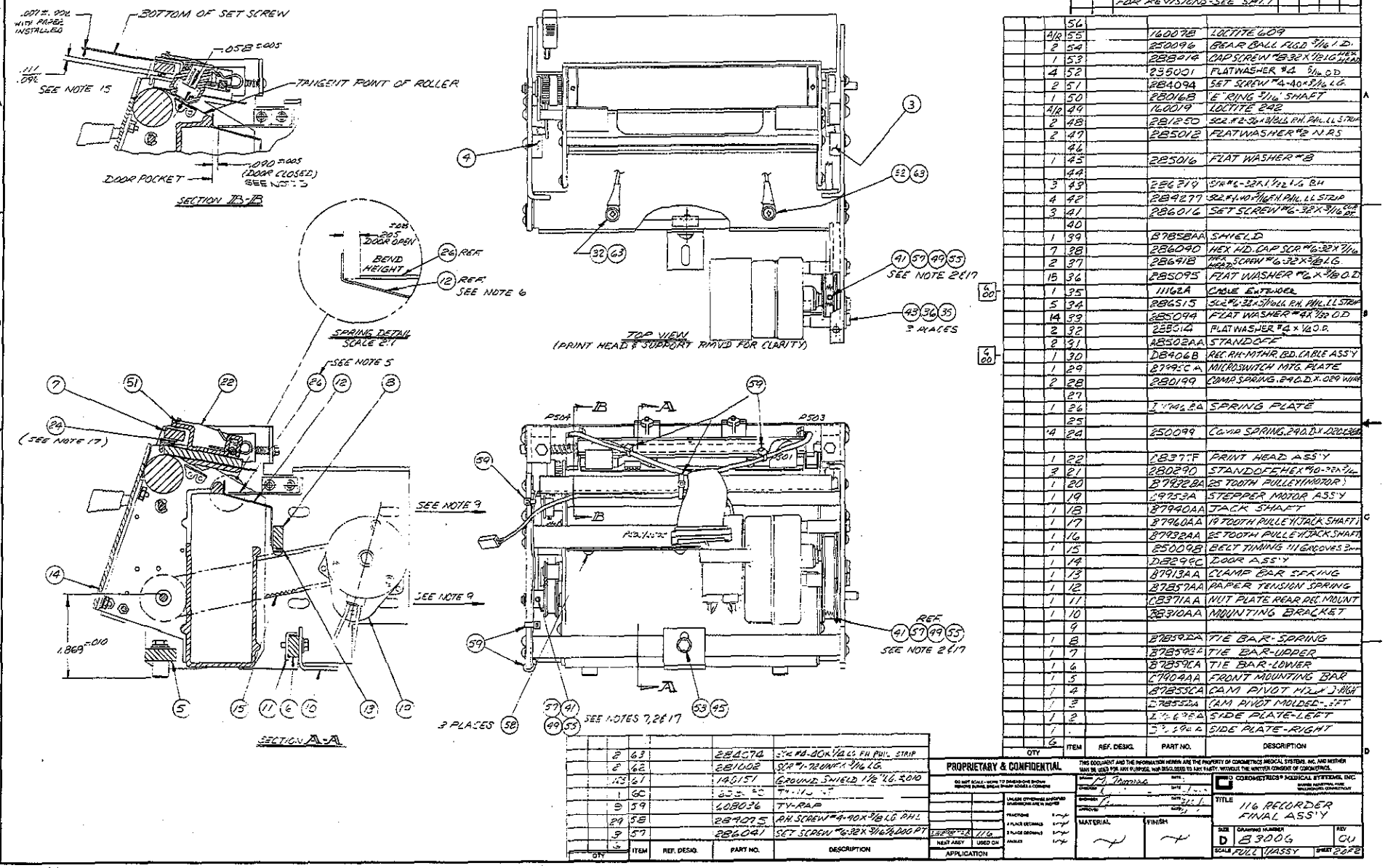
DRAWN M. Taylor DATE
CHECKED DATE 1-11
ENGINEER DATE 1-11
APPROVED DATE 1-11

MATERIAL ~ | FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT 06492

TITLE
116 RECORDER FINAL ASSY

SIZE D | DRAWING NUMBER B3806 | REV 04
SCALE FULL | 1/ASSY | SHEET 1 OF 2



QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
2	63		284074	SCR #4-40X1/4 LG. FH PHIL. STRIP
2	62		281002	SCR #1-72UNF-1 3/16 LG.
AR	61		145151	GROUND SHIELD 1 1/2" LG. .010
1	60		833-00	TY-WRAP
9	59		208036	TY-RAP
29	58		289095	PH. SCREW #4-40X3/8 LG PHIL
3	57		286041	SET SCREW #6-32X 3/16 DOG PT

QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
			FOR REVISIONS-SEE SHT 1	
	56			
A/R	55		160078	LOCTITE 609
2	54		250096	BEAR BALL FLGD 3/16 I.D.
1	53		288014	CAP SCREW #8-32X1/2 LG HEX. HEAD
4	52		235001	FLAT WASHER #4 5/16 O.D.
2	51		284094	SET SCREW #4-40X3/16 LG.
1	50		280168	E RING 3/16" SHAFT
A/R	49		160019	LOCTITE 242
2	48		281250	SCR.#2-20X3/8LG. PH. PHIL. LL STRIP
2	47		285012	FLAT WASHER #2 N.R.S
	46			
1	45		285016	FLAT WASHER #8
	44			
3	43		256319	SCR #6-32X1/32 LG. B.H
4	42		284277	SCR.#4-40X7/16 F.H. PHIL. LL STRIP
3	41		286016	SET SCREW #6-32X3/16 CUP DT
	40			
1	39		B7858AA	SHIELD
7	38		286040	HEX HD. CAP SCR #6-32X 3/16 LG.
2	37		286918	THR. HEAD SCREW #6-32X3/8 LG.
18	36		285095	FLAT WASHER #6 X 3/8 O.D.
1	35		11162A	CABLE EXTENDER
5	34		286515	SCR #6-32X.5 FLL RH. PHIL. LL STRIP
14	33		285094	FLAT WASHER #4 X 1/32 O.D.
2	32		285114	FLAT WASHER #4 X 1/4 O.D.
2	31		A8502AA	STANDOFF
1	30		D8406B	REC. RH-MTHR. BD. CABLE ASS'Y
1	29		B7995C A	MICROSWITCH MTG. PLATE
2	28		280199	COMP. SPRING, .240 O.D. X .029 WIRE
	27			
1	26		B7946AA	SPRING PLATE
	25			
4	24		250099	COMP SPRING, .290 O.D. X .020 WIRE
1	22		D8377F	PRINT HEAD ASS'Y
3	21		280890	STANDOFF HEX #0-32X3/16
1	20		B7932BA	25 TOOTH PULLEY (MOTOR)
1	19		09253A	STEPPER MOTOR ASS'Y
1	18		B7940AA	JACK SHAFT
1	17		B7946AA	19 TOOTH PULLEY (JACK SHAFT)
1	16		B7932AA	25 TOOTH PULLEY (JACK SHAFT)
1	15		250098	BELT TIMING 111 GROOVES 3mm
1	14		D8298C	DOOR ASS'Y
1	13		B7913AA	CLAMP BAR SPRING
1	12		B7857AA	PAPER TENSION SPRING
1	11		CB311AA	NUT PLATE REAR REC MOUNT
1	10		B8310AA	MOUNTING BRACKET
	9			
1	8		B7859AA	TIE BAR-SPRING
1	7		B7859BA	TIE BAR-UPPER
1	6		B7859CA	TIE BAR-LOWER
1	5		C7904AA	FRONT MOUNTING BAR
1	4		B7855CA	CAM PIVOT MOLDED-LEFT
1	3		B7855DA	CAM PIVOT MOLDED-RIGHT
1	2		B7858AA	SIDE PLATE-LEFT
1	1		B7858AA	SIDE PLATE-RIGHT
QTY	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±1/64
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±1°

NEXT ASSY 116 USED ON

APPLICATION

DRAWN M. Fanning DATE 1-...

CHECKED [illegible] DATE 2-1-...

ENGINEER [illegible] DATE 2-1-...

APPROVED [illegible] DATE [illegible]

MATERIAL ~

FINISH ~

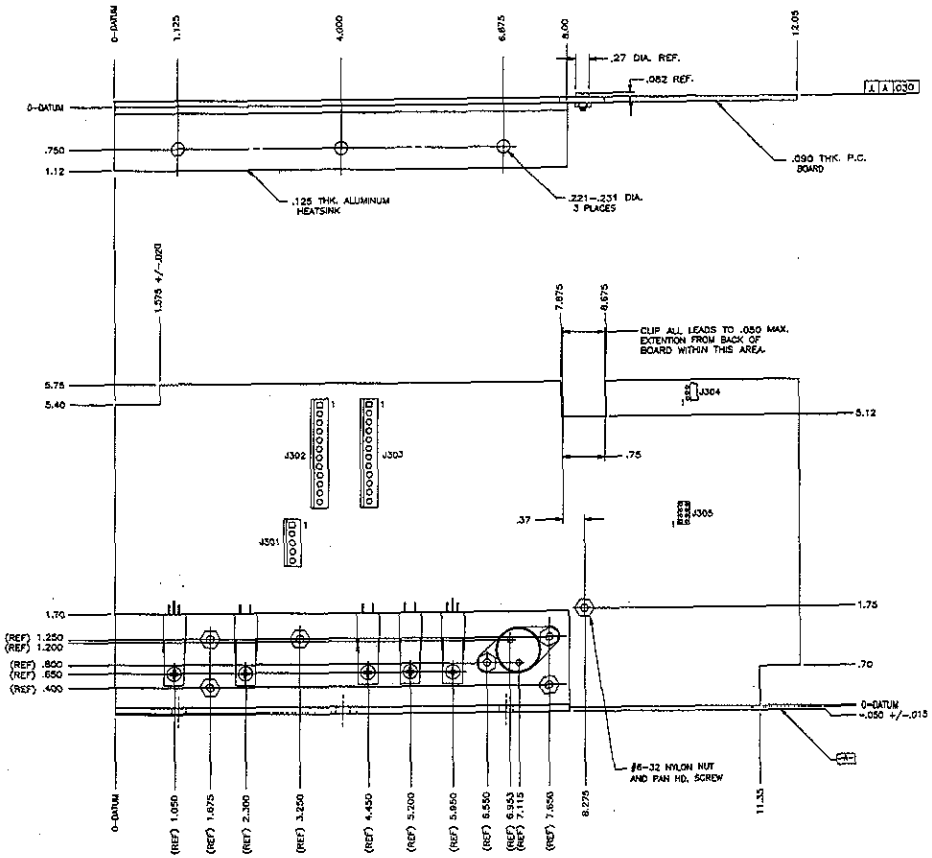
COROMETRICS® MEDICAL SYSTEMS, INC.
MARINE INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE 116 RECORDER FINAL ASS'Y

SIZE D | DRAWING NUMBER B3006 | REV 00

SCALE FULL | ASSY | SHEET 2 OF 2

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
01	7731	CHG TO AGREE	MM	3/91		
02	8021	SEE ECN	RL	7-91	BS	
03	9381	SEE ECN	RL	8/93	DS	



SOURCE CONTROL DRAWING
PURCHASED FROM
POWER CONTROLS, INC.
801 NORTH MAIN ST. EXT.
WALLINGFORD, CT. 06492

NOTES:
1. FOR BILL OF MATERIAL SEE P/L 8370BA.
2. FOR SCHEMATIC SEE D8370BC.
3. FOR ELECTRICAL SPECIFICATIONS SEE A8370BA.

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREON ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - REFER TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .030
3 PLACE DECIMALS ± .005
ANGLES ± 1°

NEXT ASSY	USED ON
10804A	116
8295BJA	116

APPLICATION

DRAWN	R. LIBBY	DATE 8-9-93
CHECKED	JE	DATE 2-17-89
ENGINEER	JE	DATE 2-17-89
APPROVED	R.J.O	DATE 7/11/91

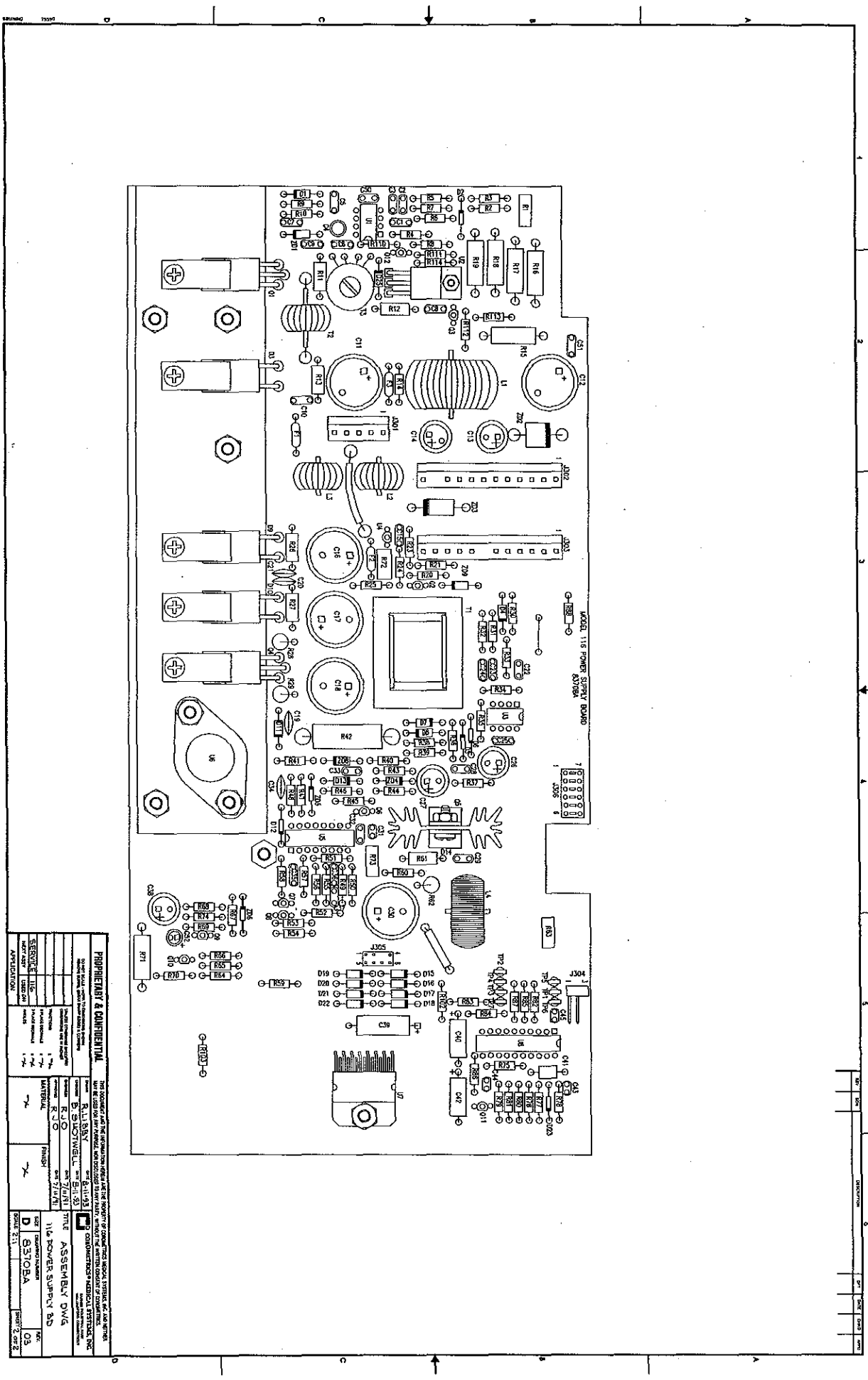
COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE ASSEMBLY DWG
116 PWR, SUP, MONITOR BD

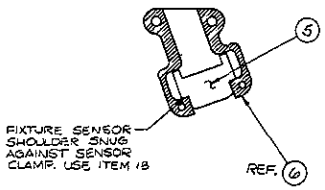
MATERIAL: -
FINISH: -

SIZE	DRAWING NUMBER	REV.
D	8370BA	03

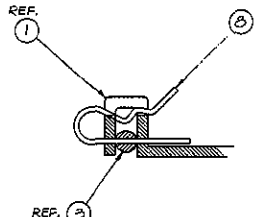
SCALE -
SHEET 1 of 2


PROPRIETARY & CONFIDENTIAL
R. LIBBY
B. SHOTWELL
R. J. O
8-11-93
7/14/93
SERVICE 116
MATERIAL
FINISH
TITLE
116 POWER SUPPLY BD
ASSEMBLY DWG
DRAWING NUMBER
8370BA
SCALE 2:1
SHEET 2 OF 2
REV.
03
MODEL 116 POWER SUPPLY BOARD
8370BA

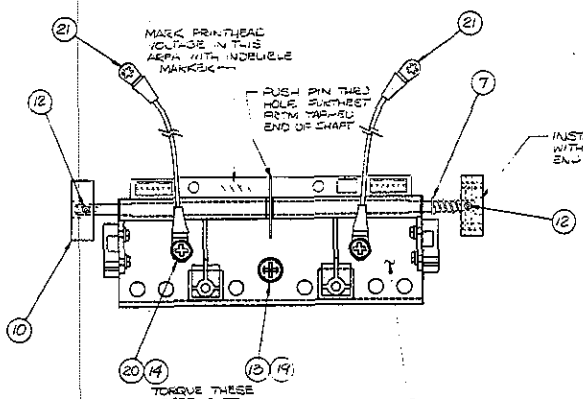
REV	ECN	DESCRIPTION	DRT	DATE	CHKD	APPD
00	8262	NEW RELEASE	J.A.	9/19/72	BS	A1



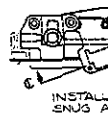
SECTION "B-B"
SENSOR DETAIL
SCALE 2:1



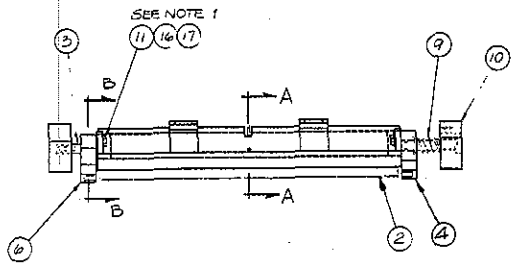
SECTION "A-A"
SCALE 2:1
(PRINTHEAD NOT SHOWN)



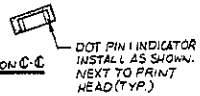
TOP VIEW



LEFT VIEW



FRONT VIEW



NOTES:
1. INSTALL WITH SENSOR CLAMPS (ITEMS 4 & 6) PUSHED UP TO LIMIT OF SLOT.
2. ENSURE PIVOT SUPPORT (ITEM 1) PIVOTS FREELY ON SHAFT (ITEM 2)
3. INSTALL PROTECTION CAPS ON CONNECTORS.
4. COMPRESS SPRING (ITEM 9) TIGHTEN (ITEM 12) UNTIL HEAD ASSY. IS INSTALLED IN RECORDER ASSY.

QTY	F	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
2		21		837138	GROUNDING CABLE ASSY.
2		20		285016	FLATWASHER #2
1		19		285010	LOCKWASHER #10
10		18		160050	LOCTITE - SUPERBONDER 420
6		17		285020	FLATWASHER #2
4		16		285005	LOCKWASHER #2, INT. TOOTH
		15			
2		14		28:1511	SCREW, P.H. M4X8
1		13		289512	SCREW, F.H. M5X8
2		12		239080	SCR #6-32X 3/16LG, CUP PT, SET, NYLOK
4		11		251230	SCR #2-56X 3/8LG, SKT HD.-CAP
2		10		D 9506AA	ALIGNMENT BLOCK
1		9		280200	SPRING .800 O.D. X .88LG.
1		8		260316	HITCH PIN .042 DIA.
1		7		260162	'E' RING 3/16 DIA. SHAFT
1		6		C7944EA	SENSOR CLAMP - L.H.
2		5		487704	SENSOR
1		4		C7944AA	SENSOR CLAMP - R.H.
1		3		857560A	PIVOT SHAFT
1		2		800020	THERMAL PRINTHEAD
1		1		D9504AA	PIVOT SUPPORT

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF CONMEDMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CONMEDMETRICS.

DRAWN: JOE ALBINO DATE 9/25/72
CHECKED: B. SWITZELL DATE 10-2-72
ENGINEER: DATE 10/2/72
APPROVED: DATE 10/4/72

CONMEDMETRICS® MEDICAL SYSTEMS, INC.
RATON PRINTING PARK WALLINGFORD, CONNECTICUT

TITLE: PRINTHEAD ASSY 116 RECORDER

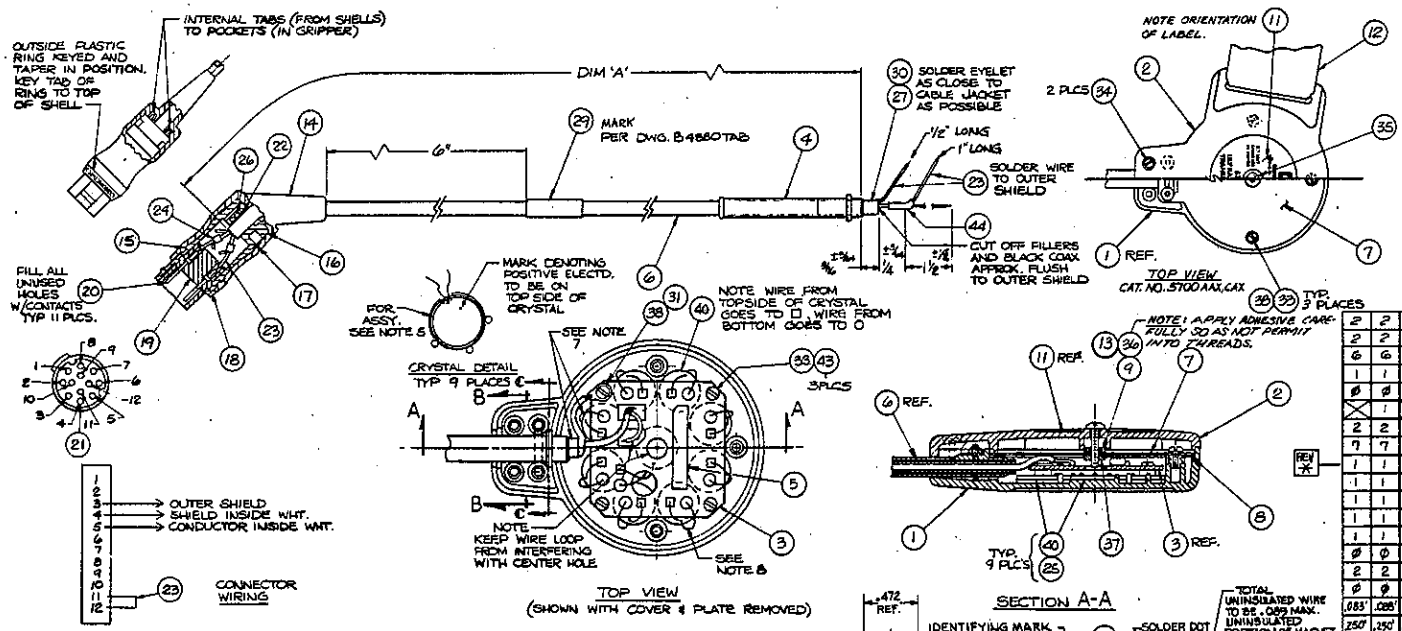
D8300E	116
D8300E	116
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

MATERIAL: NO
FINISH: NO

SIZE: D | DRAWING NUMBER: 8377F | REV: 00
SCALE: FULL | 1/ASSY | SHEET 1 OF 1


INTERNAL TABS (FROM SHELLS) TO POCKETS (IN GRIPPER)
OUTSIDE PLASTIC RING KEYED AND TAPER IN POSITION. KEY TAB OR RING TO TOP OF SHELL
DIM 'A'
6"
MARK PER DWG. B4880TAB
SOLDER EYELET AS CLOSE TO CABLE JACKET AS POSSIBLE
1/2" LONG
1" LONG
SOLDER WIRE TO OUTER SHIELD
CUT OFF FILLERS AND BLACK COAX APPROX. FLUSH TO OUTER SHIELD
FILL ALL UNUSED HOLES W/CONTACTS TYP 11 PLCS.
MARK DENOTING POSITIVE ELECTD. TO BE ON TOP SIDE OF CRYSTAL
FOR ASSY. SEE NOTE 5
CRYSTAL DETAIL TYP 9 PLACES
SEE NOTE 7
NOTE WIRE FROM TOPSIDE OF CRYSTAL GOES TO □, WIRE FROM BOTTOM GOES TO ○
3 PLCS
NOTE KEEP WIRE LOOP FROM INTERFERING WITH CENTER HOLE.
SEE NOTE 8
TOP VIEW (SHOWN WITH COVER & PLATE REMOVED)
NOTE ORIENTATION OF LABEL.
2 PLCS
REF.
TOP VIEW CAT. NO. 5700AAX, CAX
TYP. 3 PLACES
NOTE: APPLY ADHESIVE CAREFULLY SO AS NOT PERMIT INTO THREADS.
REF.
TYP. 9 PLCS
1 OUTER SHIELD
2 SHIELD INSIDE WHT.
3 CONDUCTOR INSIDE WHT.
4
5
6
7
8
9
10
11
12
CONNECTOR WIRING
SECTION A-A
IDENTIFYING MARK.
.472 REF.
.201 REF.
.055 MAX.
.060 DIA. MAX.
.020 MAX.
.072 REF.
SEE NOTE 9
SOLDER DOT (REF.)
TOTAL UNINSULATED WIRE TO BE .085 MAX. UNINSULATED PORTION OF MAGNET WIRE SHALL NOT EXTEND BEYOND .055 FROM EDGE OF CRYSTAL
INSULATION (REF.)
SEE ENLARGED DETAIL ABOVE (TYP. BOTH SIDES)
CRYSTAL ASSY. DETAIL (NO SCALE)
TOP VIEW CAT. NO. 5700BAX & DAX
2 PLCS REF.
2 REQ'D.
NOTE ORIENTATION OF 6 PIECES. STEM MUST BE DOWN 2 PLACES
SECTION B-B
SECTION C-C

ASSEMBLY PROCEEDURE

1.

2. DEGREASE, SANDBLAST, WASH AND DRY CRYSTALS IMMEDIATELY PRIOR TO BONDING INTO BASE.

3. DEGREASE, SANDBLAST, WASH AND DRY BASE PRIOR TO BONDING CRYSTALS.

4. BOND CRYSTALS TO BASE USING BUBBLE-FREE EPOXY.

5. POSITION CRYSTALS SO THE BOTTOM SOLDER JOINT IS APPROXIMATELY IN THE CENTER OF THE RECESSED POCKET. (SEE DETAIL) WORK THE CRYSTALS SO THAT EPOXY ADHESIVE IS SQUEEZED OUT ALL AROUND THE CRYSTAL. FOR A THIN (APPROX. .001 THICK) UNIFORM BOND. BRING CRYSTALS TO REST AGAINST TWO OF THE THREE LOCATING PINS (ALL THREE, IF POSSIBLE).

6. CURE EPOXY BOND FOR 16 HOURS AT ROOM TEMPERATURE (70° F MIN.) WITH CRYSTALS IN UP (TRANSDUCER FACE DOWN) POSITION.

7. DO NOT PERMIT CRYSTAL LEAD WIRES TO FALL BENEATH CABLE INPUT WIRES.

8. DRESS ALL CRYSTAL LEAD WIRES SO THEY DO NOT TOUCH THE EMI/RFI COATING OR EACH OTHER.

9 SOLDER CONNECTIONS TOP AND BOTTOM IN LINE WITHIN .030

10. FOR CATALOG NO. 5700DAX, SEE DETAILS & NOTES ON SHEET 2.

REV	ECN	DESCRIPTION	QTY	DATE	CHKD	APPD
00		NEW RELEASE	MS	9/88		
01		ADDED NOTES 7&8	MS	11/88		
02		ADDED ITEMS 34 & 35, ITEM 11 WAS 2121134. NEW RELEASE.	R.B.	3/89		
03	6491	ITEM 31 WAS 1660EH	MH	3/89		
04	6605	ADDED ITEMS 49-42, REV ITEM 5	MH	5/89	BS	RJO
05	6586	SEE ECN	MH	7/89	PS	RJO
06	6647	SEE ECN	MS	7/89	BS	
07	6548	SEE ECN	J.A.	5/90	BS	
08	6790	SEE ECN ADDED ITEM 45 SPACER	J.A.	8/10/90	BS	M.F.
09	6835	SEE ECN	J.A.	9/90	C.S.	RJO
*	7090	CREATE NEW CAT No 5700DAX	MH	9/90	BS	
*	7121	ADDED NEW ITEM 47 SEE ECN	MH	9/90	BS	MH
*	7327	ADD TO NOTE 10D	J.A.	2/91/91	M.F.	M.
03	7447	CHG NOTE 10B AND 10E	MH	6/91	M.F.	M.
*	7619	SEE ECN	MH	7/91	BS	M.F.
*	7785	ADD ITEM 47 PER ECN	MH	9/91	BS	M.F.

(SEE SHEET 2 OF 2)

H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
2	2	2	2	48		281524	NUT, #2-56 EMSTIC STOP
2	2	2	2	49		A9626AA	SPACER, NYLON
6	6	6	6	38		285005	LOCKWASHER #2
1	1	1	1	37		A8346AA	INSULATOR BUSHING
Ø	Ø	Ø	Ø	36		160054	SUPERBONDER
X	1	X	1	35		284010	SCR #4-40 X 7/16 LG. SLOT BHSS
2	2	2	2	34		281225	SCR # 2-56 X 5/16 LG. SLOT BHSS
7	7	7	7	33		281202	SCR # 2-56 X 1/4 LG SLOT SS BN.HD
1	1	1	1	32		A9625BA	CLAMP, MOUNTING U-
1	1	1	1	31		216013	TERM, SOLDER
1	1	1	1	30		280280	EYELET, STIMSON-A169
1	1	1	1	29		440011	LABEL, 2.25 X .75
1	1	1	1	28	NOT SHOWN	410112	AIRCAP BAG
Ø	Ø	Ø	Ø	27		160082	SOLDER CREAM
2	2	2	2	26		210182	SCREW M2.6X10
Ø	Ø	Ø	Ø	25		160077	EPOXY ADHESIVE
.083'	.083'	.083'	.083'	24		608043	SHRINK TUBING 3/32" I.D.
.250'	.250'	.250'	.250'	23		605105	WIRE #24 GREEN
1	1	1	1	22		210181	CLAMP (3-7mm)
1	1	1	1	21		210226	CONTACT, MALE 1.8 mm
11	11	11	11	20		210227	CONTACT, MALE 1.6.5mm
1	1	1	1	19		212147	HOUSING PIN (LT. GRAY)
1	1	1	1	18		210178	PLASTIC RING
1	1	1	1	17		210176	RING 21X5
1	1	1	1	16		210186	HALF SHELL W/CLAMP
1	1	1	1	15		210179	HALF SHELL
1	1	1	1	14		210184	GRIPPER 5-7mm
Ø	Ø	Ø	Ø	13		160042	TAK-PAC ACCELERATOR
X	1	X	1	12		C75148A	ABDOMINAL STRAP-BLUE
X	1	1	1	11		B7919AA	NAMEPLATE
1	1	1	1	10	NOT SHOWN	B6389BA	INSTRUCTION SHEET
1	1	1	1	9		A8344AA	INSULATOR RETAINER
1	1	1	1	8		B7866AA	SEAL RING
1	1	1	1	7		B7865AA	PLATE
83'	103'	83'	83'	6		B5546BA	CABLE DBL COAX/DBL SHIELD
1	1	1	1	5		474045	RES. NETWORK
1	1	1	1	4		B7864AA	BEND RELIEF
1	1	1	1	3		C7847GA	P.C. BOARD
X	1	X	1	2		D7868A	COVER
1	1	1	1	1		C7863CA	BASE, SHIELDED
H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

QTY

H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1		1		50		C2994AA	ABDOMINAL STRAP BELT
1				11		B7919BA	NAMEPLATE
Ø				46		160002	ETV SEALANT #738
2	2	2	2	45		285036	WASHER, FLAT #4
.042'	.042'	.042'	.042'	44		608028	SHRINK TUBING 1/8 ID
3	3	3	3	43		285012	FLAT WASHER #2
.50'	.50'	.50'	.50'	42		605503	MAGNET WIRE, #28 RED
.50'	.50'	.50'	.50'	41		605507	MAGNET WIRE, #28 GRN
9	9	9	9	40		C7861BA	CRYSTAL
1		1		2		B8399BA	TOP COVER, MODIFIED
1		1		39		B7529CA	KNOB, TOP
H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

QTY

H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
1		1		47		A9191HA	LABEL, 1/15 X DCR 8' W/PRPR.
X	1		1	47		A9191GA	LABEL, 1/15 X DCR 10'
	1	1	X	47		A9191FA	LABEL, 1/15 XDCR W/BOTTOM 8'
X			1	47		A9191EA	LABEL, 1/15 XDCR, 116 8 FT.
H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION

QTY

CAT. NO.	ENGR DWG. NO.	REV	DIM 'A'	USED ON
5700DAX	D8701H	09	8FT./BUTTON	116 (GERMAN 1/15 WIRE PROOF)
5700CAX	D8701G	07	10FT.	116
5700DAX	D8701F	07	8Ft/BUTTON	116
5700AAX	D8701E	07	8FT.	116

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF CORONETHICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CORONETHICS.

DO NOT SCALE - REFER TO DIMENSIONS SHOWN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

SEE NEXT ASSY | TAB. USED ON

APPLICATION

DRAWN: V. Sandate 8/30/88
CHECKED: M. Perry 9-1-88
APPROVED: DATE

MATERIAL: 2
FINISH: 2

CORONETHICS® MEDICAL SYSTEMS, INC.
MILPITAS, CALIFORNIA 95035-7904

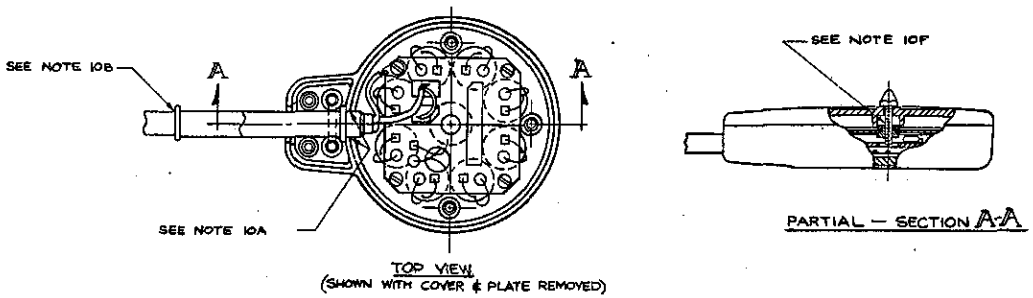
TITLE: PULSE - DOPPLER ULTRASOUND TRANSDUCER

SIZE: D | DRAWING NUMBER: 8701TAB | REV: *

SCALE: NONE | SHEET 1 OF 2

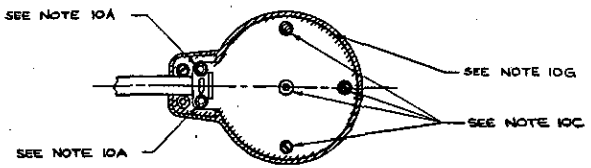
16-22

REV	ECN	DESCRIPTION	BY	DATE	CHKD	APPD
*	8044	SEE ECN	MT	7/91	PS	[illegible]
*	8057	SEE ECN RAW ITEM 13	MT	7/91	BS	[illegible]
*	8261	ITEM 41 WAS 605504, 42 WAS 605402	J.A.	12/4/91	BS	
*	8392	CHG ITEM 41, 42	J.A.	4/9/92	[illegible]	[illegible]
*	8668	SEE ECN	J.A.	9/15/92	BS	1.3
*	8778	REM. ITEM 36 (SOLVENT VC-1)	J.A.	3/1/93	BS	[illegible]
*	9161	ADDED ITEM 36; REVISED NOTE SECT AA.	R.B.	11/1/93	BS	[illegible]
*	9815	ITEM'S 2 & 32 WAS 'AA'	R.B.	2/8/94	BS	[illegible]



TOP VIEW
(SHOWN WITH COVER & PLATE REMOVED)

PARTIAL — SECTION A-A



TOP VIEW
CAT. № 5700DAX
(SHOWN WITH COVER REMOVED)

5700DAX ULTRASOUND XDUCER SEALING PROCEDURE & SPECS.

NOTES:

10A. AFTER ALL WIRE PREPARATION & CONNECTIONS ARE COMPLETED, LIFT THE CABLE & BEND RELIEF (4) FROM THE SLOT IN THE BASE (1) ENOUGH TO EXPOSE THE SLOT. APPLY A BEAD OF RTV SEALANT (46). APPX. THE WIDTH OF THE BASE WALL THICKNESS AROUND THE THREE SIDES OF THE SLOT. REPLACE THE BEND RELIEF WITH A MIN. AMOUNT OF MOTION TO AVOID SQUEEZING THE SEALANT OUT OF THE SLOT. LAY A BEAD OF SEALANT (46) ACROSS THE TOP OF THE BEND RELIEF, BRIDGING THE GAPS TO THE BASE SLOT.
ASSEMBLE PLATE (7) AND TWO NUTS (48) TO (32) CLAMP MOUNTING

10B. AT THE OUTSIDE END OF THE BEND RELIEF, INJECT AN AMOUNT OF RTV SEALANT INTO THE SPACE BETWEEN IT AND CABLE (6), ALL AROUND THE DIAMETER
AND UNIFORMLY SPREAD EXCESS SEALANT IN A FILLET ALL AROUND THE CABLE AND BEND RELIEF.

10C. BEFORE ASSEMBLY OF THE THREE SCREWS (33) & LWs (38), APPLY A "GLOB" OF RTV SEALANT AT EACH OF THE THREE SCREW LOCATIONS IN THE PLATE (7) AND ALL OVER THE INSULATOR RETAINER (9), BRIDGING ALL AROUND THE RETAINER AND PLATE JOINT. INSERT SCREW (33) AND LW (38) DIRECTLY INTO THE "GLOB" WITHOUT SPREADING THE "GLOB". SECURE ALL FIVE SCREWS HOLDING THE PLATE. LEAVE THE RTV SEALANT AS IT NATURALLY SURROUNDS THE SCREW, DO NOT WIPE OFF.

10D. ALLOW A MIN. OF 24 HR. CURE TIME AT MIN. 75 DEG. F., MIN. 50% RH. OR AN ALTERNATE CURE TIME USING AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS.

10E. TEST: SUBMERGE THE TRANSDUCER, PLATE SIDE UP, INTO A CONTAINER OF WATER AND APPLY 3 PSI OF AIR PRESSURE THRU CABLE FOR A MIN. OF 3 MINUTES. INITIALLY SHAKE SIDEWAYS SEVERAL TIMES WITH THE CABLE TILTED UPWARD TO DISCHARGE ANY TRAPPED AIR UNDER THE PLATE. ANY BUBBLES EMERGING FROM THE TRANSDUCER WILL CONSTITUTE A SEAL FAILURE.

10F. IF THE TRANSDUCER PASSES THE TEST ABOVE, COMPLETELY DRY THE UNIT AND THEN COMPLETELY REMOVE THE RTV SEALANT FROM AROUND AND IN THE THREADED HOLE OF THE INSULATOR RETAINER (9) RE-APPLY A NEW LIBERAL "GLOB" OF RTV SEALANT ON AND AROUND THE INSULATOR RETAINER AND ALSO FILL THE INSIDE COVER CENTER POCKET.

10G. APPLY A LIBERAL BEAD OF RTV SEALANT ALL AROUND THE PERIMETER, BRIDGING THE PLASTIC BASE & METAL PLATE. ALSO APPLY RTV SEALANT AROUND JOINT OF EXTENSION PORTION, UNDER AND OVER BEND RELIEF BUSHING AND A "GLOB" ON EACH OF THE TWO OUTERMOST POST (////////).

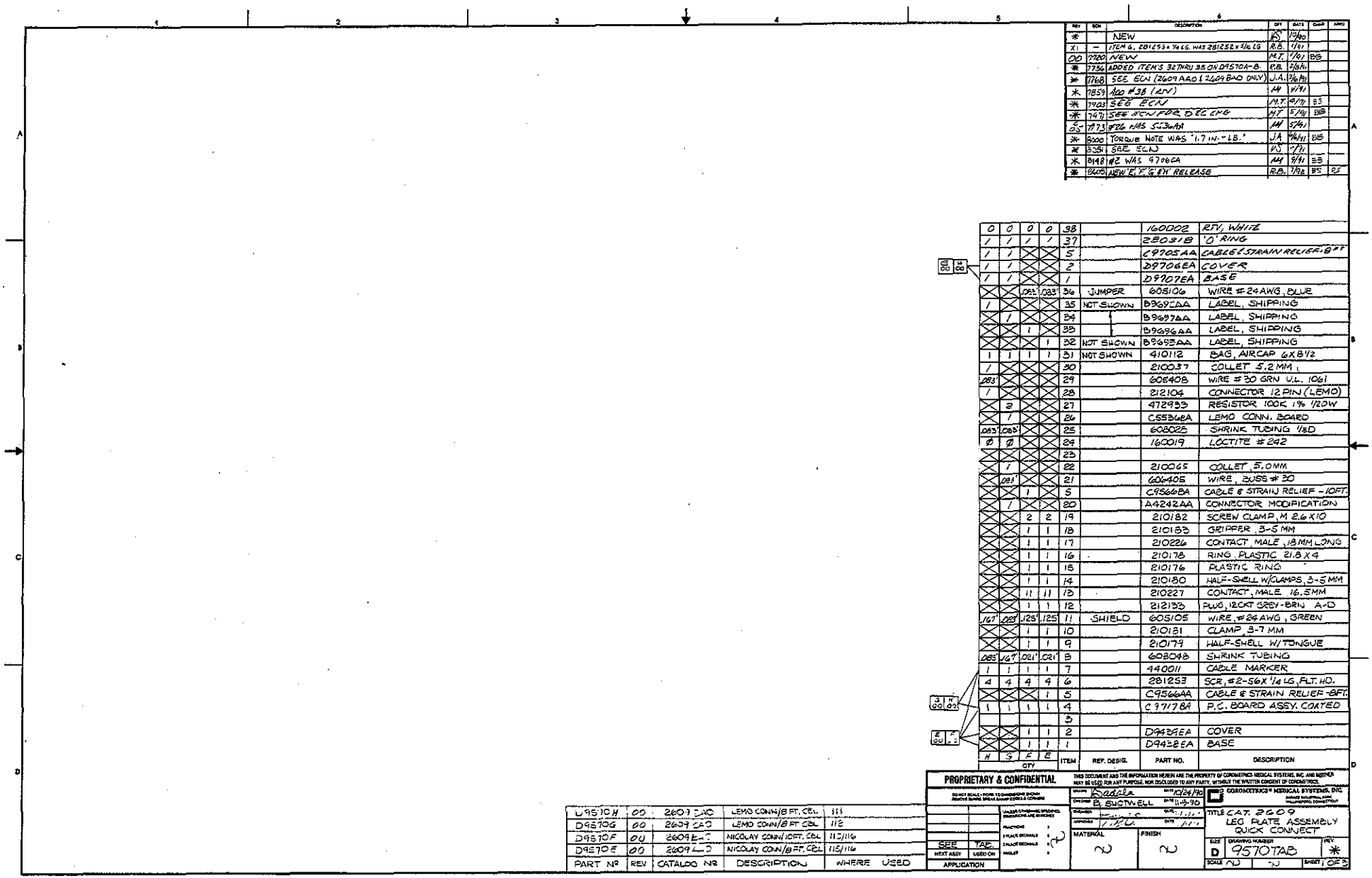
10H. ASSEMBLE AND WORK DOWN THE COVER (2), KNOB (39) AND TWO SCREWS (34). WIPE OFF EXCESS RTV SEALANT THAT EXTRUDES UP AND AROUND KNOB, SCREWS AND PERIMETER.

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.
DO NOT SCALE. REFER TO DIMENSIONS SHOWN.

DRAWN JOE ALBINO 12/4/90
CHECKED B. SHOTWELL 12/30/90
ENGINEERING [illegible] 1-31-90
APPROVED [illegible] 2-5-90
MATERIAL —
FINISH —
TOLERANCES: FRACTIONS ± .X, 2 PLACE DECIMALS ± .X, 3 PLACE DECIMALS ± .X, ANGLES ± .
SEE TAB | TAB
NEXT ASSY | USED ON
APPLICATION

COROMETRICS® MEDICAL SYSTEMS, INC.
TITLE PULSE-DOPPLER ULTRASOUND XDUCER
SIZE D | DRAWING NUMBER 8701 TAB | REV. *
SCALE NONE | SHEET 2 OF 2

16-23



REV	ECN	DESCRIPTION	QTY	DATE	CHKD	APPD
*		NEW	15	10/90		
X1	-	ITEM 6, 281255 x 7/16 LG. WAS 281252 x 5/16 LG	R.B.	1/91		
00	7320	NEW	M.T.	1/91	BB	
*	7736	ADDED ITEM'S 32 THRU 35 ON D9570A-B.	R.B.	2/91		
*	7768	SEE ECN (2609 AAO & 2609 BAO ONLY)	J.A.	3/6/91		
*	7859	ADD #38 (2 PL)	M	4/91		
*	7903	SEE ECN	M.T.	4/91	BS	
*	7971	SEE ECN FOR DEC CHG	M.T.	5/91	BB	
01	7973	#26 WAS 5330AA	M	5/91		A
*	8000	TORQUE NOTE WAS "1.7 IN.-LB."	J.A.	9/6/91	BS	
*	8351	SEE ECN	R.S.	1/92		
*	8148	#2 WAS 9706CA	M	5/91	BS	
*	8608	NEW 'E, F & G' RELEASE	R.B.	7/92	BS	RS

0	0	0	0	38		160002	RTV, WHITE
/	/	/	/	37		250318	'O' RING
/	/			5		C9705AA	CABLE & STRAIN RELIEF-8FT
/	/			2		D9706EA	COVER
/	/			1		D9707EA	BASE
		.053"	.083"	36	JUMPER	605106	WIRE #24 AWG, BLUE
/				35	NOT SHOWN	B9691AA	LABEL, SHIPPING
	/			34		B9697AA	LABEL, SHIPPING
		1		33		B9696AA	LABEL, SHIPPING
			1	32	NOT SHOWN	B9693AA	LABEL, SHIPPING
1	1	1	1	31	NOT SHOWN	410112	BAG, AIRCAP 6X8 1/2
/				30		210037	COLLET 5.2 MM
.083"				29		606408	WIRE #30 GRN UL. 1061
/				28		212104	CONNECTOR 12 PIN (LEMO)
	2			27		472933	RESISTOR 100K 1% 1/20W
	/			26		C5536BA	LEMO CONN. BOARD
.083"	.083"			25		608025	SHRINK TUBING 1/8D
Ø	Ø			24		160019	LOCTITE #242
				23			
	/			22		210065	COLLET 5.0MM
	.083"			21		606405	WIRE, BUSS #30
		1		5		C9566BA	CABLE & STRAIN RELIEF - 10FT.
	/			20		A4242AA	CONNECTOR MODIFICATION
		2	2	19		210182	SCREW CLAMP, M 2.6 X 10
		1	1	18		210183	GRIPPER 3-5 MM
		1	1	17		210226	CONTACT, MALE, 18 MM LONG
		1	1	16		210178	RING, PLASTIC 21.8 X 4
		1	1	15		210176	PLASTIC RING
		1	1	14		210180	HALF-SHELL W/CLAMPS, 3-5 MM
		11	11	13		210227	CONTACT, MALE 16.5 MM
		1	1	12		212133	PLUG, 12 CKT GREY-BRN A-D
.167"	.083"	.125"	.125"	11	SHIELD	605105	WIRE #24 AWG, GREEN
		1	1	10		210181	CLAMP, 3-7 MM
		1	1	9		210179	HALF-SHELL W/TONGUE
.083"	.167"	.021"	.021"	8		608048	SHRINK TUBING
1	1	1	1	7		440011	CABLE MARKER
4	4	4	4	6		281253	SCR, #2-56 X 1/4 LG, FLT. HD.
			1	5		C9566AA	CABLE & STRAIN RELIEF-8FT.
1	1	1	1	4		C971784	P.C. BOARD ASSY. COATED
				3			
		1	1	2		D9426EA	COVER
		1	1	1		D9428EA	BASE
H	G	F	E	ITEM	REF. DESIG.	PART NO.	DESCRIPTION
QTY							

PART NR	REV	CATALOG NR	DESCRIPTION	WHERE USED
D9570H	00	2609 FAO	LEMO CONN/8 FT. CBL	111
D9570G	00	2609 CAO	LEMO CONN/8 FT CBL	112
D9570F	00	2609 EAO	NICOLAY CONN/10FT. CBL	113/116
D9570E	00	2609 GAO	NICOLAY CONN/8 FT. CBL	115/116

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED: FRACTIONS ± / 2 PLACE DECIMALS ± / 3 PLACE DECIMALS ± / ANGLES ±

DRAWN: Sandra 10/24/90
CHK'D BY: B. SWITWELL 11-5-90
ENGINEER: [illegible] 11-5-90
APPROVED: [illegible] 11-5-90

COROMETRICS® MEDICAL SYSTEMS, INC. WALLINGFORD, CONNECTICUT

MATERIAL: NA
FINISH: NA

TITLE: CAT. 2609 LEG PLATE ASSEMBLY QUICK CONNECT

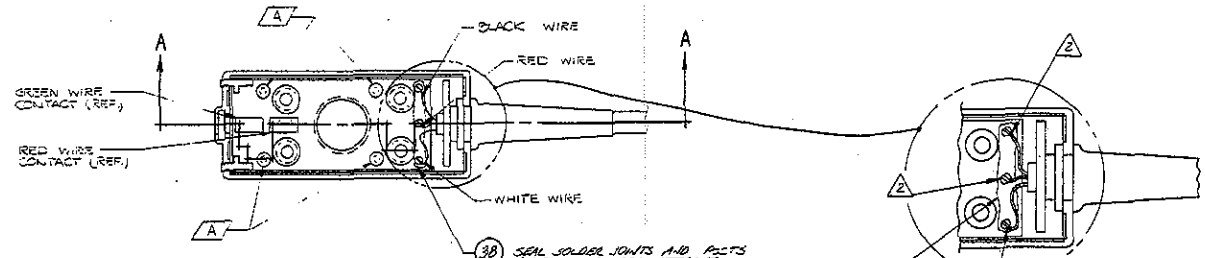
SIZE: D | DRAWING NUMBER: 9570TAB | REV: *

SCALE: NA | SHEET 1 OF 3

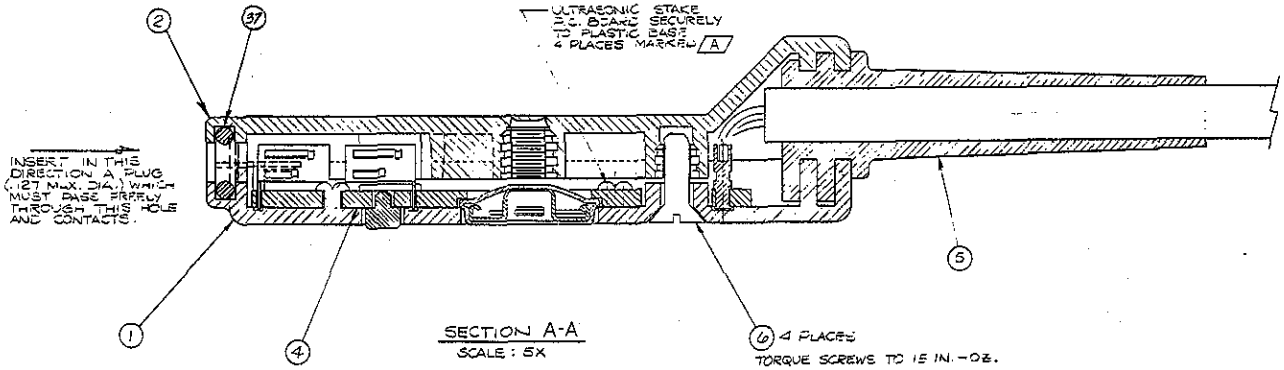
SEE NEXT ASSY | TAB. USED ON

APPLICATION

ECN	DESCRIPTION	QTY	DATE	CHKD	APPD
	FOR REVS. SEE SHEET 1	16	10/30		



TOP VIEW
SHOWN WITHOUT COVER
SCALE : 2X

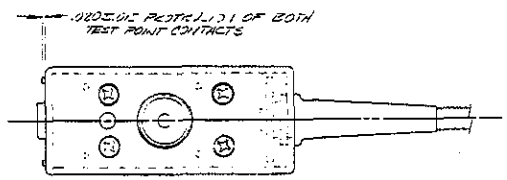

ULTRASONIC STAKE P.C. BOARD SECURELY TO PLASTIC BASE 4 PLACES MARKED A
INSERT IN THIS DIRECTION A PLUG (.127 MAX. DIA.) WHICH MUST PASS FREELY THROUGH THIS HOLE AND CONTACTS.
2
37
1
4
5
6 4 PLACES

SECTION A-A
SCALE : 5X

6 4 PLACES
TORQUE SCREWS TO 15 IN.-OZ.

OPERATION -

A SOLDER WIRE DIRECTLY INTO FORK.
A SEAL WITH RTV, ITEM 38.



BOTTOM VIEW
SCALE : 2X

FINISH	QJ
MATERIAL	QJ
DRAWN	QJ
CHECKED	QJ
ENGINEER	QJ
APPROVED	QJ
PART Nº	REV

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF CORDIS/CRE MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF CORDIS/CRE.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED IN INSTRUCTIONS ARE IN INCHES

FRACTIONS ±
2 PLACE DECIMALS ±.01
3 PLACE DECIMALS ±.005
ANGLES ±

DRAWN: J. Hirsch 10/30/90
CHECKED: S. SHOTWELL 11-5-90
ENGINEER: 1.1.
APPROVED: 1.1.

MATERIAL: QJ
FINISH: QJ

NEXT ASSY | USED ON
APPLICATION

CORDIS/CRE MEDICAL SYSTEMS, INC.
MIAMI INDUSTRIAL PARK, HIALEAH, FLORIDA

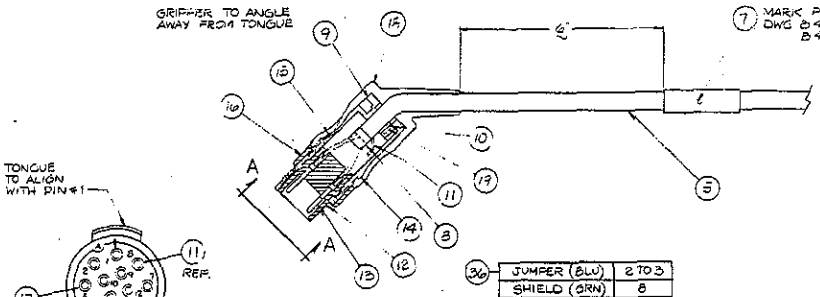
TITLE
LEG PLATE ASSEMBLY QUICK CONNECT

SIZE D | DRAWING NUMBER 9570TAB | REV. *

SCALE QJ | QJ | SHEET 2 OF 3

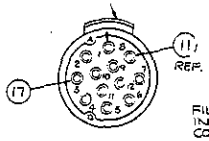
REV	ECN	DESCRIPTION	QPT	DATE	CHKD	APPD
		SEE SHEET 1 FOR REVS.	KS	1/12		

GRIPPER TO ANGLE AWAY FROM TONGUE



(7) MARK PER DWG B4880BC - 2607AAO
B4880BD - 2609BAO

TONGUE TO ALIGN WITH PIN #1



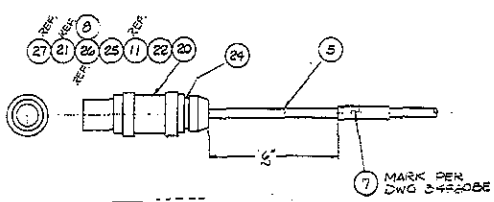
FILL UNUSED HOLES IN HOUSING WITH CONTACTS, ITEM 18

VIEW A-A

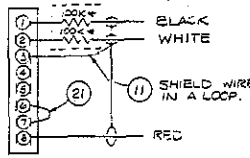
(30)	
JUMPER (BLU)	2 TO 3
SHIELD (GRN)	8
BLACK	6
RED	12
WHITE	7
WIRE COLOR	TO PIN #

CAT. Nº 2609AAO & 2609BAO

CAT. Nº 2609CAO



(7) MARK PER DWG B4880BE

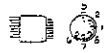


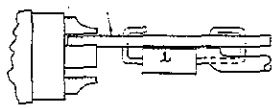
BLACK
WHITE
SHIELD WIRE IN A LOOP.
RED

WIRING DIAGRAM

(26) (27) 2 PLACES

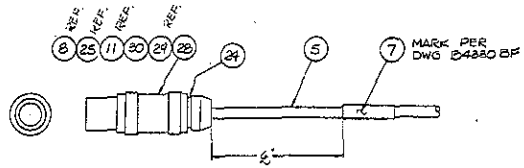
CUT PINS 4 & 5 FLUSH WITH CONNECTOR BODY.



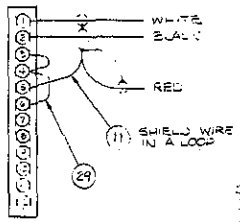


DETAIL SHOWING P.C. BD. MOUNTING AT LEMO CONN.

CAT. Nº 2609DAO

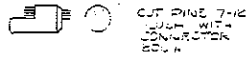


MARK PER DWG B4880BF



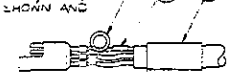
WHITE
BLACK
RED
SHIELD WIRE IN A LOOP

WIRING DIAGRAM



CUT PINS 7-12 FLUSH WITH CONNECTOR BODY

COVER SHIELD CONNECTION WITH ¼ OF EACH TUBING (ITEM 25) TWIST WIRE (ITEM 11) IN A LOOP AS SHOWN AND SOLDER.



DETAIL
SCALE: 2X SIZE

DESIGN	CJ
DRAWN	CJ
CHECK	C
QUALITY	C
PART Nº	REV

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COSMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COSMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS REMOVE BURRS, BREAK SHARP EDGES 0.5 CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES
X PLACE DECIMALS ±
X PLACE DECIMALS ±
ANGLES ±

SEE	TAB
NEXT ASSY	USED ON
APPLICATION	

DRAWN	Radar 10/24/90
CHECKED	B. SHOTWELL 11-5-90
ENGINEER	2/1/11
MATERIAL	N
FINISH	N

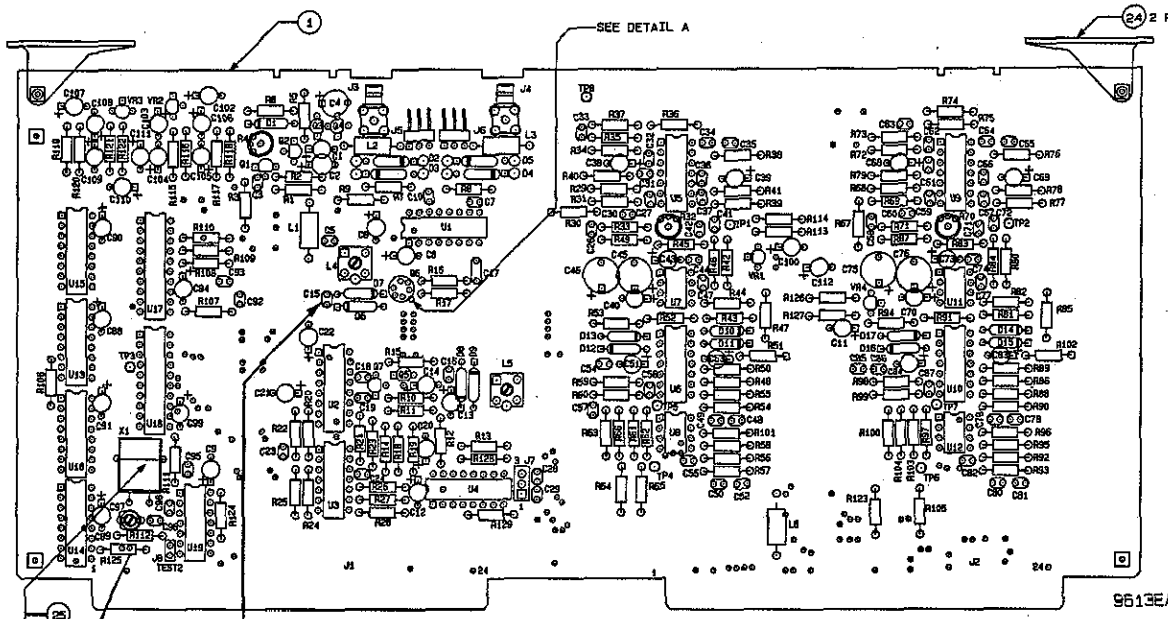
COSMETRICS® MEDICAL SYSTEMS, INC.
SOUTH PLANTATION, FLORIDA
MILLSTONE, CONNECTICUT

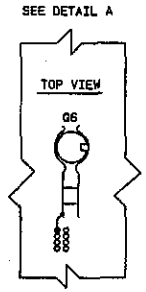
TITLE: LEG PLATE ASSEMBLY QUICK CONNECT

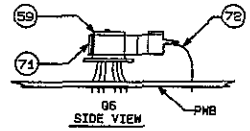
SIZE	DRAWING NUMBER	REV.
D	9570TAB	*

SCALE: N | SHEET 3 OF 3

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
00	8977	SEE ECN-NEW	RL	2.93	BS	Rac
01	9278	ADD R125-REWORK	RL	6.93	BS	BS
02	9463	CHG TO AGREE	RL	9.93	BS	RW
03	9922	CHG C15 FROM 180pf +e200pf	SAS	3-94	BS	



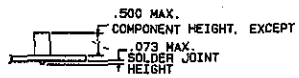




REWORK ECN 9922
CHG C15 FROM 154099,180pf
TO 154099,200pf

NOTES:

1- OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2- INSERT COMPONENTS FULLY INTO BOARD.
3- FOR SCHEMATIC DRAWING SEE 9613DC.
4- STORE IN ANTISTATIC BAG P/N 410080 - NOT SHOWN.
5- FOR PARTS LIST SEE P/L 9613D.
6- SOLDER BUSWIRE TO CRYSTAL CASE.



REWORK

REWORK ECN9278
ADD RES R125, VALUE 1.69K.
P/N 472247, AS SHOWN.
6/11/93

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

NEXT ASSY	USED ON
E10770K	118
E10241K	
E10231K	
E10770A	116
APPLICATION	

DRAWN	R. LIBBY	DATE 2.12.93
CHECKED	B. SHOTWELL	DATE 3.8.93
ENGINEER	R. O'CONNELL	DATE 3.8.93
APPROVED	R. O'CONNELL	DATE 3.8.93

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

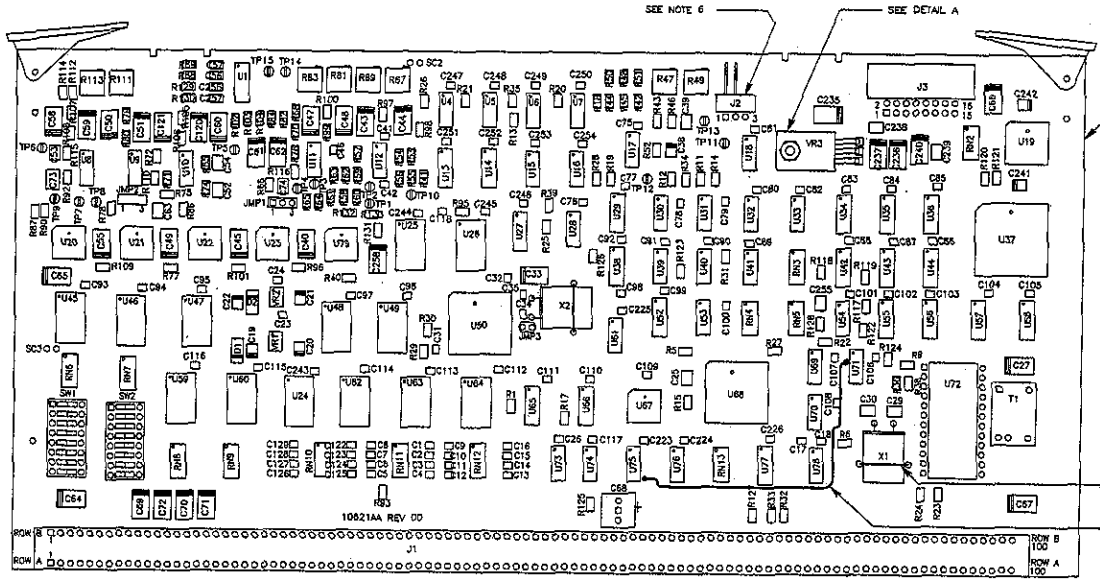
MATERIAL: ~
FINISH: ~

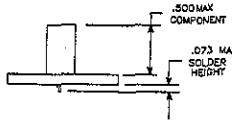
TITLE: ASSEMBLY DWG
116 U/S DOPPLER BD

SIZE	DRAWING NUMBER	REV.
C	9613D	03.

SCALE | SHEET 1 of 1

MFR	ECN	DESCRIPTION	QTY	DATE	CHKD	APPD
08	9287	SEE ECN	345	4/26/93		
04	9310	PROGRAM U19 & U67	RL	6-93	BS	RN
05	0884	CHG TO AGREE	RL	8-94	BS	WK





NOTES:
1-OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWINGS SEE 10621AC.
4-STORE IN ANTISTATIC BAG. P/N 410080 - NOT SHOWN.
5-FOR PARTS LIST SEE P/L 10621A.
6-REMOVE PIN 3 ON J2 FOR KEY.

DETAIL A

PROPRIETARY & CONFIDENTIAL
THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THIS WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN REMOVE BURRS, BREAK SHARP EDGES & CHAMFER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

E107707AB | 1AB
NEXT ASSY | USED ON
APPLICATION

DRAWN J. HOELCK 5/26/93
CHECKED S. STRONG 5-26-93
ENGINEER [illegible] 5/27/93
APPROVED R. Clark 5/27/93

MATERIAL —
FINISH —

COROMETRICS® MEDICAL SYSTEMS, INC.
BUFFALO INDUSTRIAL PARK, WALLINGFORD, CONNECTICUT

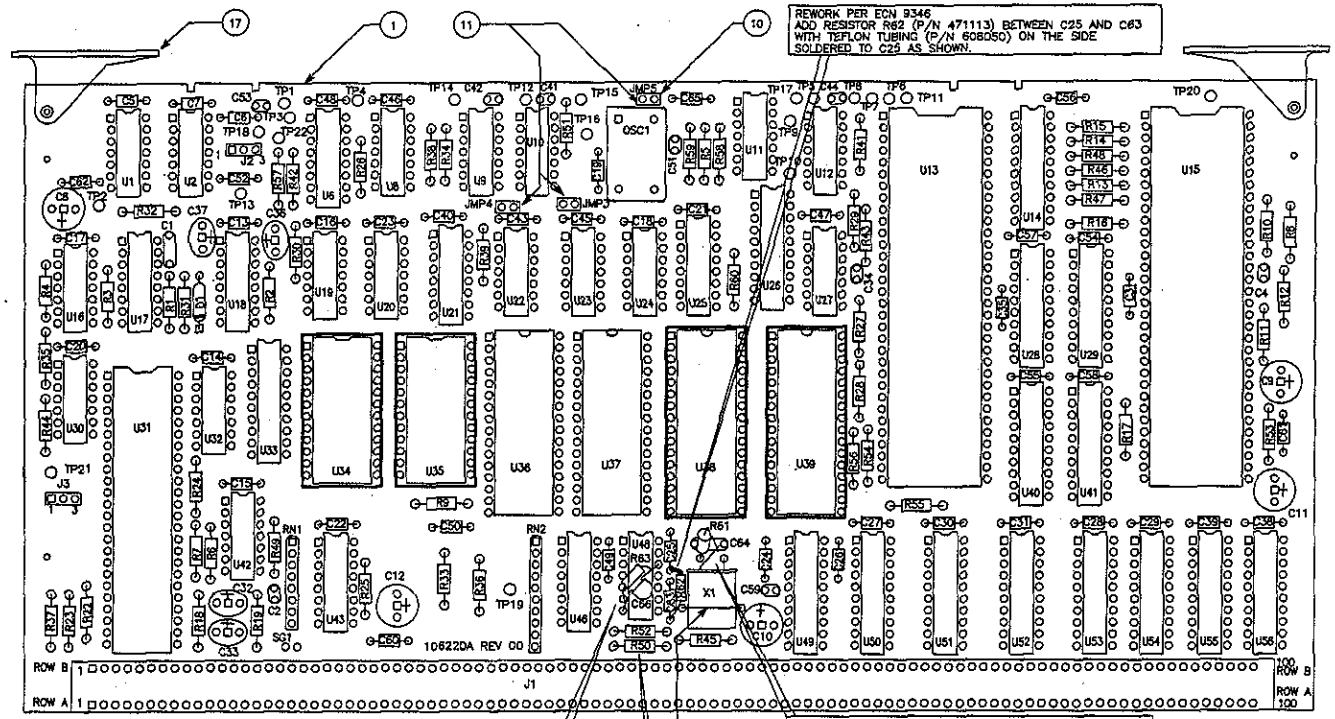
TITLE MODEL 118 PERIPHERAL BOARD ASSEMBLY DRAWING

SIZE D | DRAWING NUMBER 10621A | REV. 05
SCALE 1.75 | SHEET 1 of 1

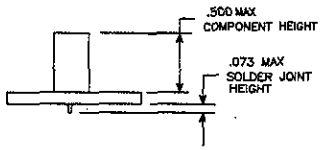
REV	ECN		DFT	ENG	APD
03	9339	SEE ECN	SAS	BS	

REV	ECN		DRN	DT		
01	9308	SEE ECN	RL	4/93	RJO	
02	9360	SEE ECN	JC	843	BS	RJO

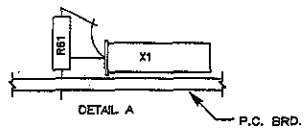
REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
02	9287	SEE ECN	JCH	5/93	SAS	
03	9346	SEE ECN	JC	6/93	SAS	RJO


REWORK PER ECN 9346
ADD RESISTOR R62 (P/N 471113) BETWEEN C25 AND C63 WITH TEFLON TUBING (P/N 608050) ON THE SIDE SOLDERED TO C25 AS SHOWN.
REWORK PER ECN 9346
ADD CAPACITOR (C66 50PF,P/N 150016) ACROSS U48 FROM PIN 12 TO 7 AS SHOWN.
ADD RESISTOR (R63 1K P/N 471113) TO BOTH LEADS OF C66.
REWORK PER ECN 9346
LIFT LEG OF CRYSTAL (X1).
SOLDER RESISTOR (R61 33 OHM, P/N 471108) BETWEEN BOARD AND LIFTED LEG AS SHOWN. SEE DETAIL A
REWORK PER ECN 9346
CHG R50 AND R52 FROM (390 OHM P/N 471185) TO (1.5K P/N 471107)
10622DA REV 00
J1
ROW B
ROW A
OSC1
X1

REWORK



NOTES:
1—OBSERVE POLARITY AND ORIENTATION MARKING OF ALL COMPONENTS.
2—INSERT COMPONENTS FULLY INTO BOARD.
3—FOR SCHEMATIC DRAWINGS SEE 10622BC.
4—STORE IN ANTISTATIC BAG. P/N 410060 — NOT SHOWN.
5—FOR PARTS LIST SEE P/L 10622B.



PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°

NEXT ASSY	USED ON
PL 10622B	118

APPLICATION

DRAWN	CAM VERNA 5/26/93
CHECKED	S. STRONG 5/26/93
ENGINEER	W Hunter 5/27/93
APPROVED	R O Connell 5/27/93

MATERIAL: —
FINISH: —

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

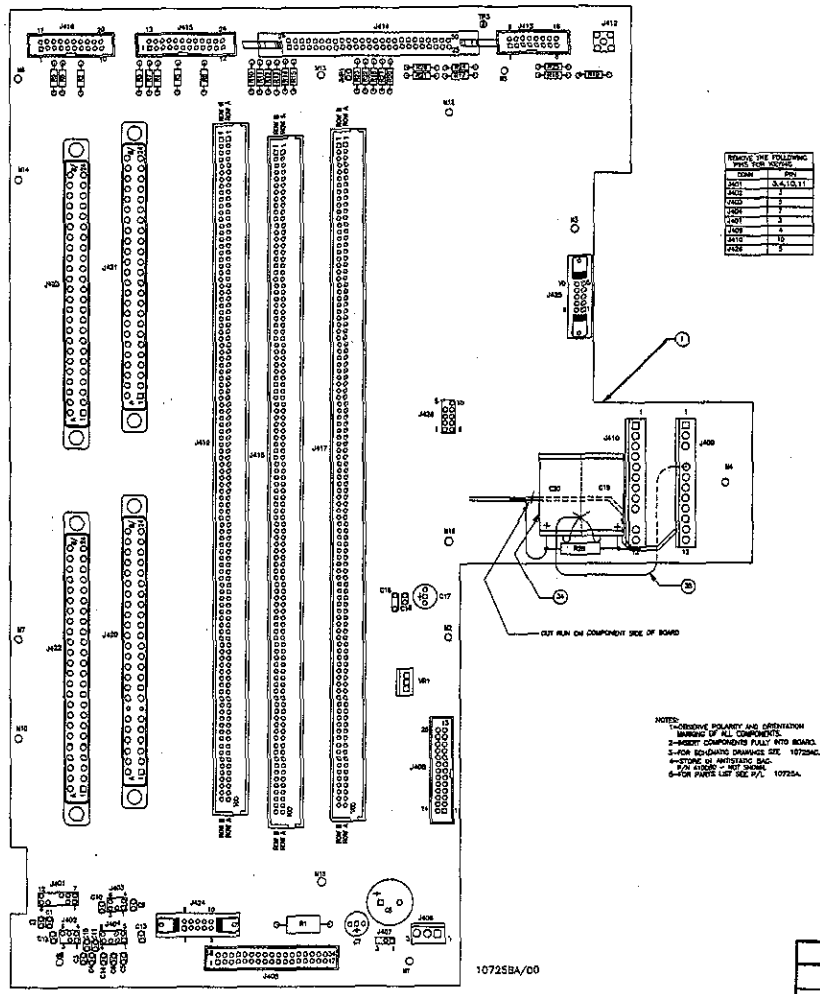
TITLE: MODEL 118 CPU BOARD ASSEMBLY DWG

SIZE	DRAWING NUMBER	REV.
C	10622B	03

SCALE 1.5 SHEET 1 OF 1

16-29

REV	ECN	DESCRIPTION	BY	DATE	CHKD	APPD
05	08677	RMV'D PASS ON KEY 3 COVN PINS	EL	7-26	BS	MD



REWORK

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREON ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

DRAWN: E. LIBBY 7-22-94
CHECKED: S. STRONG 8/22/94
ENGINEER: W Hawkins 8/22/94
APPROVED: R Okonski 8/22/94

COROMETRICS® MEDICAL SYSTEMS, INC.
BALANCE PLANTATION, PLANE
WALLINGFORD, CONNECTICUT

TITLE: ASSY. DWG.
118 MOTHER BD

NEXT ASSY: | USED ON:
APPLICATION

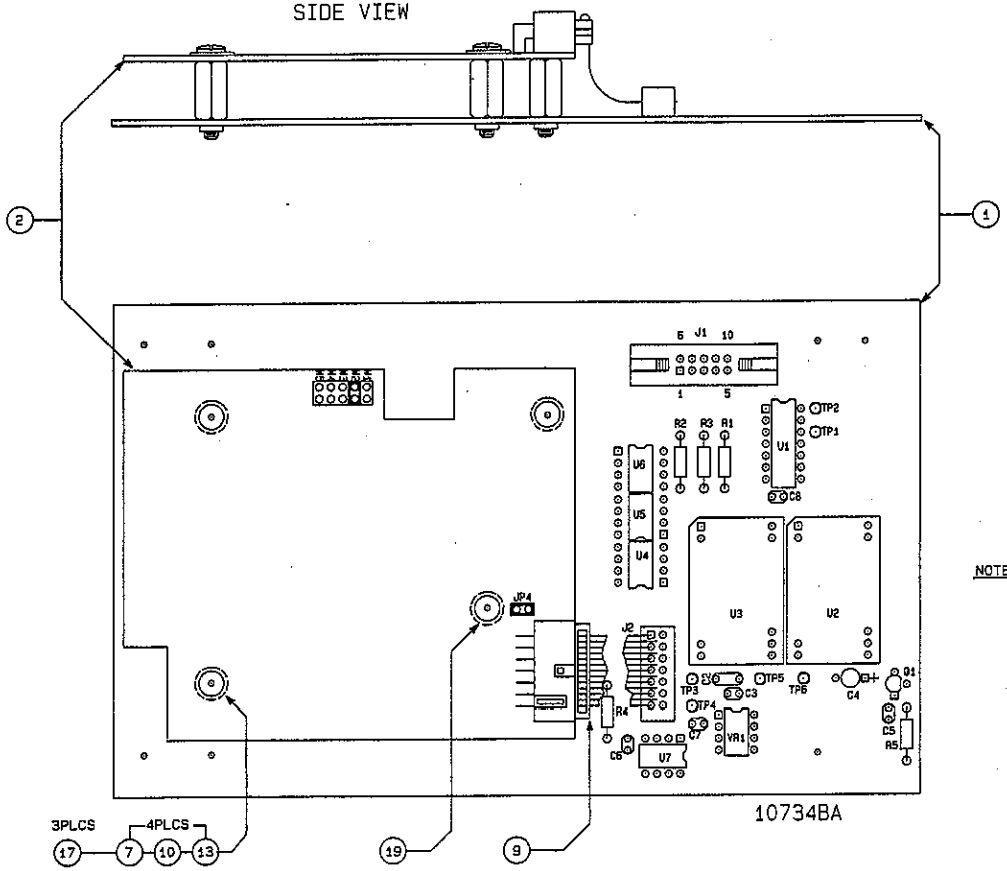
MATERIAL: X | FINISH: X

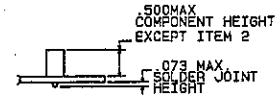
SIZE: D | DRAWING NUMBER: 10725A | REV: 05

SCALE: | SHEET 1 of 1

REV	ECN	DESCRIPTION	DFT	DATE	CHKD	APPD
X0		NEW	RL	1-93		
00		NEW RELEASE	R.B.	5/93		
01	9287	SEE ECN	SAS	5/93		
02	9577	SEE ECN	JC	9/93	BS	RW

SIDE VIEW





NOTES:

1-OBSERVE POLARITY AND ORIENTATION MARKINGS OF ALL COMPONENTS.
2-INSERT COMPONENTS FULLY INTO BOARD.
3-FOR SCHEMATIC DRAWING SEE 10734AC.
4-STORE IN ANTISTATIC BAG P/N 410080 - NOT SHOWN.
5-FOR PARTS LIST SEE P/L 10734A.
6-INSTALL PEMNUTS ON SOLDER SIDE OF 10734 BD., 4 PLACES.
7-INSTALL STANDOFFS ON COMP. SIDE OF 10734 BD., 4 PLACES.

PROPRIETARY & CONFIDENTIAL

THIS DOCUMENT AND THE INFORMATION HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND NEITHER MAY BE USED FOR ANY PURPOSE, NOR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± X
2 PLACE DECIMALS ± X
3 PLACE DECIMALS ± X
ANGLES ± X

E107107AB	118
NEXT ASSY	USED ON
APPLICATION	

DRAWN	R. LIBBY	DATE 1-20-93
CHECKED	S. STRONG	DATE 5-25-93
ENGINEER	STEVE DUFOUR	DATE 5-26-93
APPROVED	R. O'Connell	DATE 5/27/93

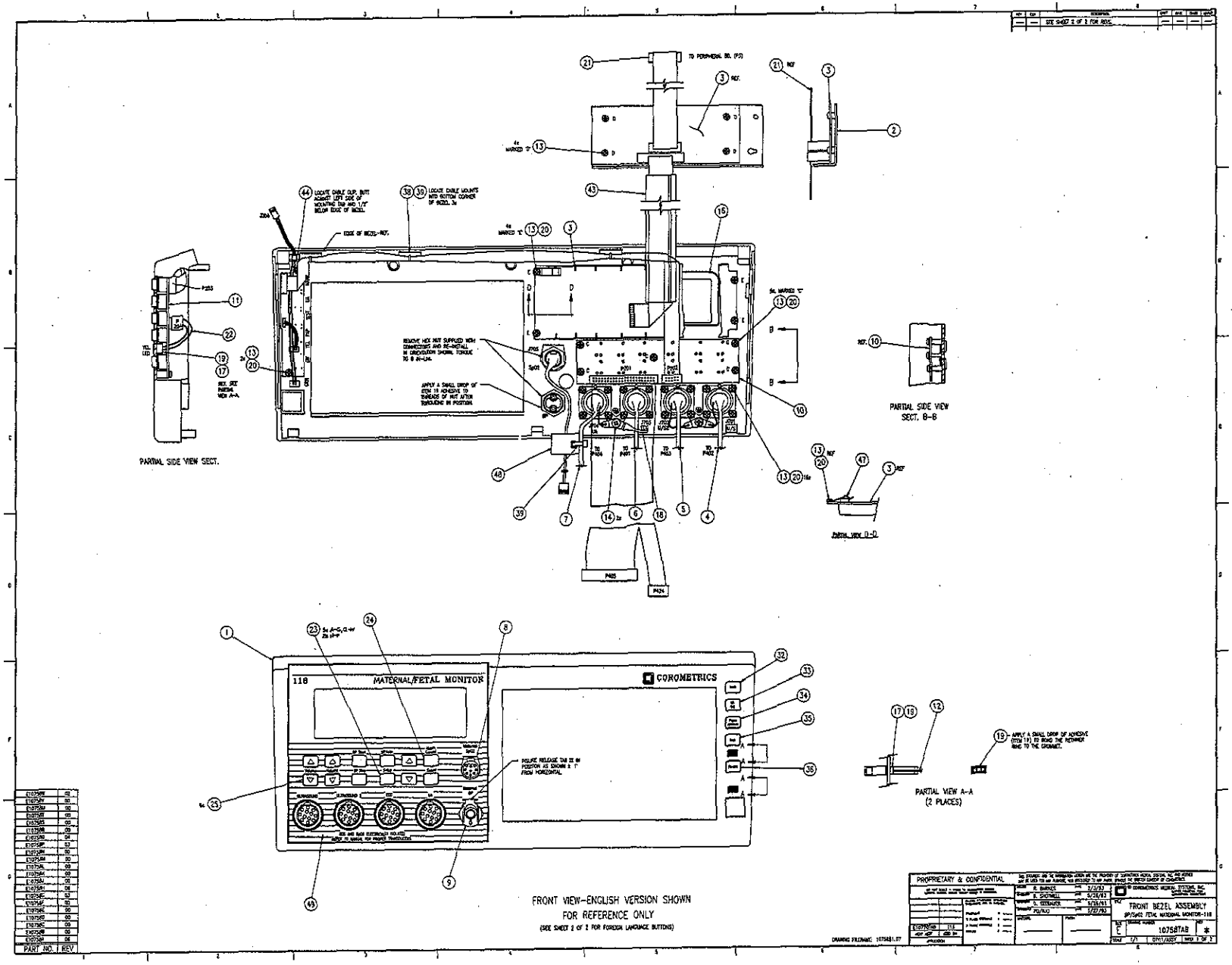
MATERIAL: X
FINISH: X

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

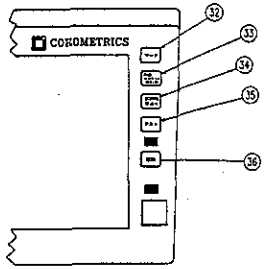
TITLE: ASSY DWG
118 NELLCOR INTERFACE BD

SIZE	DRAWING NUMBER	REV.
C	10734A	02

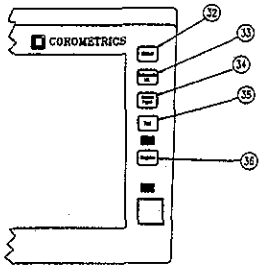
SCALE 1.5:1 SHEET 1 OF 1


118 MATERIAL/FETAL MONITOR
COROMETRICS
PARTIAL SIDE VIEW SECT.
PARTIAL SIDE VIEW SECT. B-B
PARTIAL VIEW A-A (2 PLACES)
FRONT VIEW-ENGLISH VERSION SHOWN
FOR REFERENCE ONLY
(SEE SHEET 2 OF 2 FOR FOREIGN LANGUAGE BUTTONS)
PROPRIETARY & CONFIDENTIAL
FRONT BEZEL ASSEMBLY
10758TAB

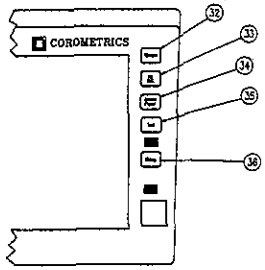
PART NO.	REV	LANGUAGE	NEXT ASSY	WITH BP	WITH SPO2
010758A	04	ENG	010770AB	YES	YES
010758B	05	JAP	010770AB	YES	YES
010758C	06	SPN	010770AB, 011812AB	YES	YES
010758D	00	FRN	010770AB, 011812AB	YES	YES
010758E	05	GER	010770AB	YES	YES
010758F	00	ITA	010770AB, 011812AB	YES	YES
010758G	03	UK, ETC	010770AB, 011812AB	YES	YES
010758H	04	ENG	010770AB	NO	YES
010758J	00	JAP	010770AB	NO	YES
010758K	00	SPN	010770AB, 011812AB	NO	YES
010758L	00	FRN	010770AB, 011812AB	NO	YES
010758M	00	GER	010770AB	NO	YES
010758N	00	ITA	010770AB, 011812AB	NO	YES
010758P	03	UK, ETC	010770AB, 011812AB	NO	YES
010758Q	04	ENG	010770AB	YES	NO
010758R	00	JAP	010770 AB	YES	NO
010758S	00	SPN	010770AB, 011812AB	YES	NO
010758T	00	FRN	010770AB, 011812AB	YES	NO
010758U	00	GER	010770AB	YES	NO
010758V	00	ITA	010770AB, 011812AB	YES	NO
010758W	02	UK, ETC	010770AB, 011812AB	YES	NO



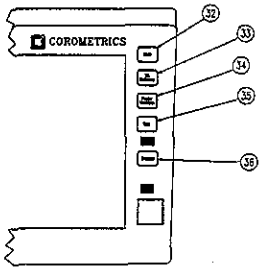
JAPANESE VERSION BUTTON ARRANGEMENT



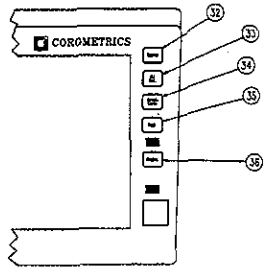
SPANISH VERSION BUTTON ARRANGEMENT



FRENCH VERSION BUTTON ARRANGEMENT



GERMAN VERSION BUTTON ARRANGEMENT



ITALIAN VERSION BUTTON ARRANGEMENT

REV	TCN	DESCRIPTION	DRFT	DSGT	DATE	APPD
AD	6847	NEW RELEASE - PL	BB	12/92	BS	
AA	6935	REVISED	BB	1/93	BS	
*	8977	NEW RELEASE, 011884, CAL. DAT	BB	5/93	BS	
#	9338	ITEMS 10 & 11 CHG'D TO 'B'	BB	6/93	BS	
#	9378	ADDED ITEM 6, C10512B	BB	7/93	BS	
&	9403	ITEM 15 WAS 160050 & ADDED ITEM 43	BB	7/93	BS	
&	9481	ADDED ITEMS 40, 41, 42, 44 & 47; NOW C, P & W	BB	10/93	BS	
#	9740	SEE ECR	BB	11/93	BS	DS
#	9904	ADDED ITEM 48; QTY. OF QTM TO MAS 3	BB	1/94	BS	DS
#	9739	PRODUCTION RELEASE OF FUNCTION UNITS	BB	3/94	BS	PW

ITEM	QTY	REFERENCE DESIGNATOR	PART NUMBER	DESCRIPTION
1	1		011183A	FRONT BEZEL OVERLAY-UK W/BP
2	1		011183A	FRONT BEZEL OVERLAY-ITA W/BP
3	1		011183A	FRONT BEZEL OVERLAY-GER W/BP
4	1		011183A	FRONT BEZEL OVERLAY-FRN W/BP
5	1		011183A	FRONT BEZEL OVERLAY-SPN W/BP
6	1		011183A	FRONT BEZEL OVERLAY-JAP W/BP
7	1		011183A	FRONT BEZEL OVERLAY-ENG W/BP
8	1		011183A	FRONT BEZEL OVERLAY-UK W/BP & SpO2
9	1		011183A	FRONT BEZEL OVERLAY-ITA W/BP & SpO2
10	1		011183A	FRONT BEZEL OVERLAY-GER W/BP & SpO2
11	1		011183A	FRONT BEZEL OVERLAY-FRN W/BP & SpO2
12	1		011183A	FRONT BEZEL OVERLAY-SPN W/BP & SpO2
13	1		011183A	FRONT BEZEL OVERLAY-JAP W/BP & SpO2
14	1		011183A	FRONT BEZEL OVERLAY-ENG W/BP & SpO2
15	1		180050	FOSTER MDU W/CLAMP
16	1		6040AM	CONTACT CLIP
17	1			
18	1		90W116	CLIP, CABLE 1/8 D
19	1		6040.38	CONVENTIONAL SHIELDED
20	1			
21	1		6040.00	TYC-BAP
22	1		6040.00	CABLE MOUNT
23	1		011617EA	BUTTON MARKED, RECORD-ITA
24	1		011617EA	BUTTON MARKED, PAPER ADVANCE-ITA
25	1		011617JA	BUTTON MARKED, UA REV.-ITA
26	1		011617HA	BUTTON MARKED, MARK-ITA
27	1		011617KA	BUTTON MARKED, RECORD-GER
28	1		011617BA	BUTTON MARKED, PAPER ADVANCE-GER
29	1		011617AA	BUTTON MARKED, UA REV.-FRE
30	1		011617DA	BUTTON MARKED, RECORD-FRN
31	1		011617CA	BUTTON MARKED, PAPER ADVANCE-FRN
32	1		011617GA	BUTTON MARKED, UA REV.-ITA
33	1		011617GA	BUTTON MARKED, MARK-ITA
34	1		011617FA	BUTTON MARKED, RECORD-SPN
35	1		011617EA	BUTTON MARKED, PAPER ADVANCE-SPN
36	1		011617BA	BUTTON MARKED, UA REV.-SPN
37	1		011617HA	BUTTON MARKED, MARK-SPN
38	1		011617KA	BUTTON MARKED, RECORD-JAP
39	1		011617DA	BUTTON MARKED, RECORD-JAP
40	1		011617CA	BUTTON MARKED, PAPER ADVANCE-JAP
41	1		011617BA	BUTTON MARKED, UA REV.-JAP
42	1		011617AA	BUTTON MARKED, MARK-JAP
43	1		010758BA	FRONT BEZEL, MARKED - FRE
44	1		C10790GA	BUTTON MARKED, RECORD-ENG
45	1		C10790HA	BUTTON MARKED, RESP-ENG
46	1		C10790GA	BUTTON MARKED, PAPER ADVANCE-ENG
47	1		C10790FA	BUTTON MARKED, UA REV-ENG
48	1		C10790DA	BUTTON MARKED, MARK-ENG
49	6		011617BA	BUTTON MARKED, ARROW-UP & DOWN
50	3		C10790GB	BUTTON MOLDED, BLANK-KNOB
51	5		C10790CB	BUTTON MOLDED, BLANK
52	1		C10778BA	CABLE ASSY, RECORDER & INDICATOR LED
53	1		810758BA	CABLE ASSY, CC, DISPLAY TO PCBPCA, SC
54	1		2X5014	WASH, #4 FLAT NPT
55	1		180044A	LATCH, 495 SUPERMINCER
56	1		8M36CP	CALCPAP MONT (BEZEL TO CHASSIS)
57	1		3M0071	LCD MOUNTING KIT (BEZEL AND CLAMP)
58	1		C11854AA	EMI SHIELD LENS
59	1			
60	11		2X5313	SCR, #4-32 X 1/16"LG. PHIL. PH LL STRP
61	13		2X4C73	SCR, #4-40 X 5/16"LG. PHIL. PH LL STRP
62	1		6B4132	CABLE ASSY, POWER INDICATOR LED
63	1		C10778AB	PC BD. ASSY--RECORDER FUNCTION KEYPAD
64	1		C10782B	PC BD. ASSY--MAIN FUNCTION KEYPAD
65	1		810758AA	CONN. DP-TYPE TUBE MODIFIED
66	1		C10512B	CONN. CABLE ASSY. (SPO2)
67	1		C8385B	CONN. CABLE ASSY. (SM)
68	1		C8385B	CONN. CABLE ASSY. (SPO2)
69	1		C8381M	CONN. CABLE ASSY. (GROUND 2)
70	1		C8383A	CONN. CABLE ASSY. (GROUND)
71	1		2M0081	D. DISPLAY--PURCHASED W/DC CARD & CABLE
72	1		010758BA	DISPLAY MOUNTING BRACKET
73	1		010758AA	FRONT BEZEL, MARKED - ENG

PROPRIETARY & CONFIDENTIAL

THE INFORMATION AND THE DESIGNS HEREIN ARE THE PROPERTY OF COROMETRICS MEDICAL SYSTEMS, INC. AND ARE NOT TO BE COPIED OR PLACED, OR DISCLOSED TO ANY PARTY, WITHOUT THE WRITTEN CONSENT OF COROMETRICS.

DRAWN	E. BARNES	2/2/93
ENGR	B. SMITHTEL	9/24/93
MANUFACTURING	D. SEEMANN	3/24/93
QUALITY ASSURANCE	PO/AUX	5/27/93

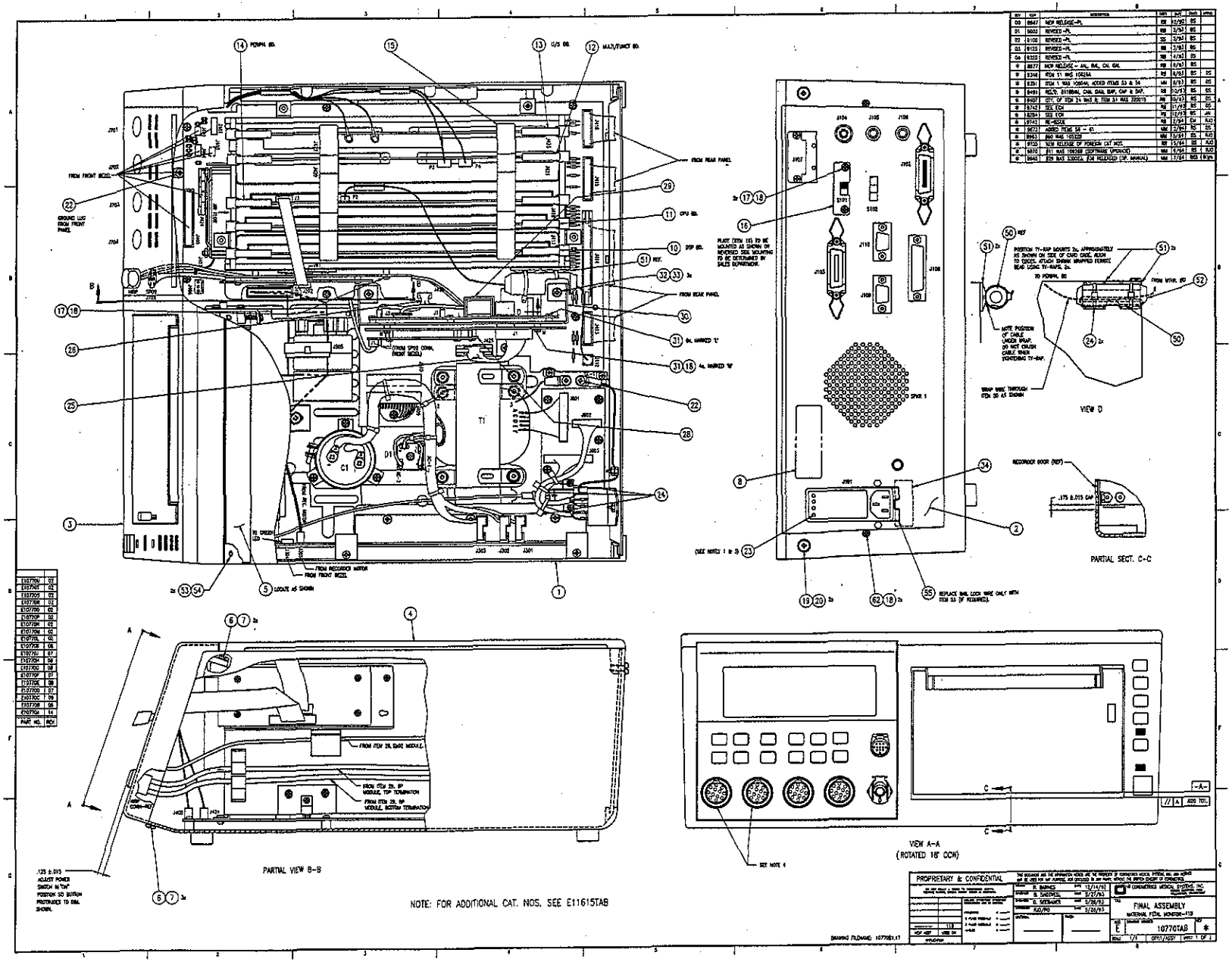
COROMETRICS MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT 06492

TITLE: FRONT BEZEL ASSEMBLY
BP/SpO2 FETAL MATERIAL MONITOR-115

SIZE	DRAWING NUMBER	REV
C	10758AB	#

SCALE: 1/1 | SHEET 1 OF 2

DRAWING FILENAME: 10758Z2.DT


NOTE: FOR ADDITIONAL CAT. NOS. SEE E11615TAB
PARTIAL VIEW B-B
VIEW A-A
(ROTATED 18° CCW)
VIEW D
PARTIAL SECT. C-C
PROPRIETARY & CONFIDENTIAL
FINAL ASSEMBLY
MATERIAL FETAL MONITOR-113
10770TAB